

**Download Solved Mid/Final Term
Past Papers by Waqar Siddhu
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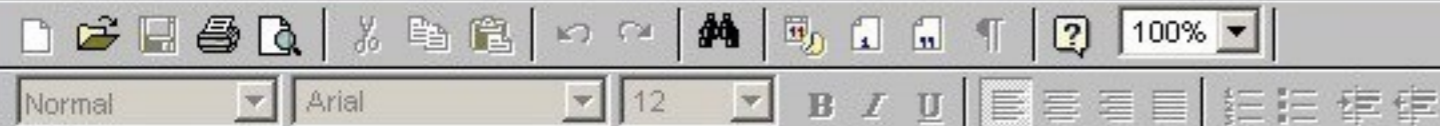
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What do setText () method and getText() do?

Answer ([Please click here to Add Answer](#))

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setText() is used set any value in textfield and it set as a string

getText is vice versa of setText()

Made by: Waqar Siddhu

How JSP's are efficient?

Answer ([Please click here to Add Answer](#))

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Normal Arial 12 B I U

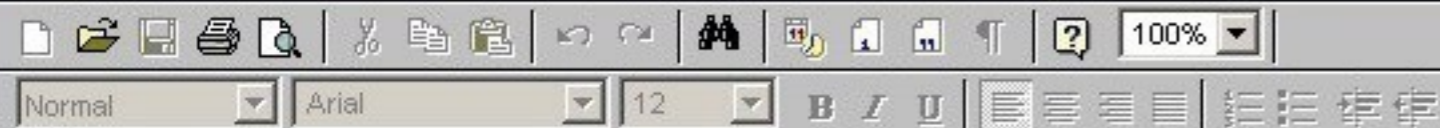
efficient as we can embad an HTML code and java code at one place so we dont have to splite all files and also make ease for dovelpoers

Made by: Waqar Siddhu

If we do not want to include a controller in our application . Which layer of three layer architecture will control screen flow?

Answer ([Please click here to Add Answer](#))

VuAnswers.com



page centric approche will be used as
presentation layer
buisness layer
data layer

Made by: Waqar Siddhu

If you want to send an error redirect to a web page. What method you will use for it. Write complete code syntax of required method.

Answer ([Please click here to Add Answer](#))

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An error code is sent as a parameter of `response.sendError (int, msg)` methods

Made by: Waqar Siddhu

What will be the output of code given below? If there is any problem in code then correct the problem.

```
import javax.swing.*;  
public class Test {  
  
public static void main(String[] args) {
```

Answer ([Please click here to Add Answer](#))

VuAnswers.com



Made by: Waqar Siddhu

What is the advantage of having HTTP session?

Answer ([Please click here to Add Answer](#))

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Provides a way to identify a user across more than one page request or visit to a Web site and to store information about that user.

Made by: Waqar Siddhu

Write a statement to use tag library "StudentInfo.tld" with prefix "student".

Answer ([Please click here to Add Answer](#))

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page 379 creat the Custm tag

```
<%@taglib uri="/WEB-INF/tlds/StudentInfo.tld" prefix="student"%>
```

Made by: Waqar Siddhu

What is the difference between web server and application server?

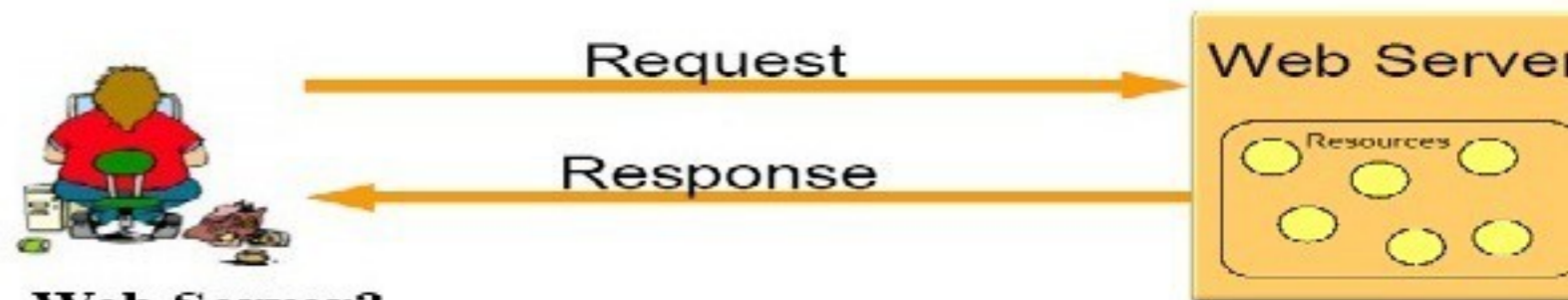
Answer ([Please click here to Add Answer](#))



A web server is software which provides users, access to the services that are present on the internet. These servers can provide support for many protocols used over internet or intranet like HTTP, FTP, telnet etc

A Web Server is a server capable of receiving HTTP requests, interpreting them, processing the corresponding HTTP Responses and sending them to the appropriate clients (Web Browsers). Example: Apache Web Server. [Read more about Web Servers and their working>>](#)

An Application Server is a complete server which provides an environment for running the business components (EJBs, ADF BCs, etc.) in addition to providing the capabilities of a Web Container as well as of a Web Server. Example: Bea WebLogic, IBM WebSphere, Oracle Application Server, etc.



Web Server?

Software that provides services to access the Internet, or an intranet.

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A web server hosts web sites Provides support for HTTP and other protocols Executes server-side programs (such as CGI scripts or servlets) that perform certain functions.

Made by: Waqar Siddhu

How java provides security and safety for applications?.Also briefly explain JVM verifier.

Answer ([Please click here to Add Answer](#))

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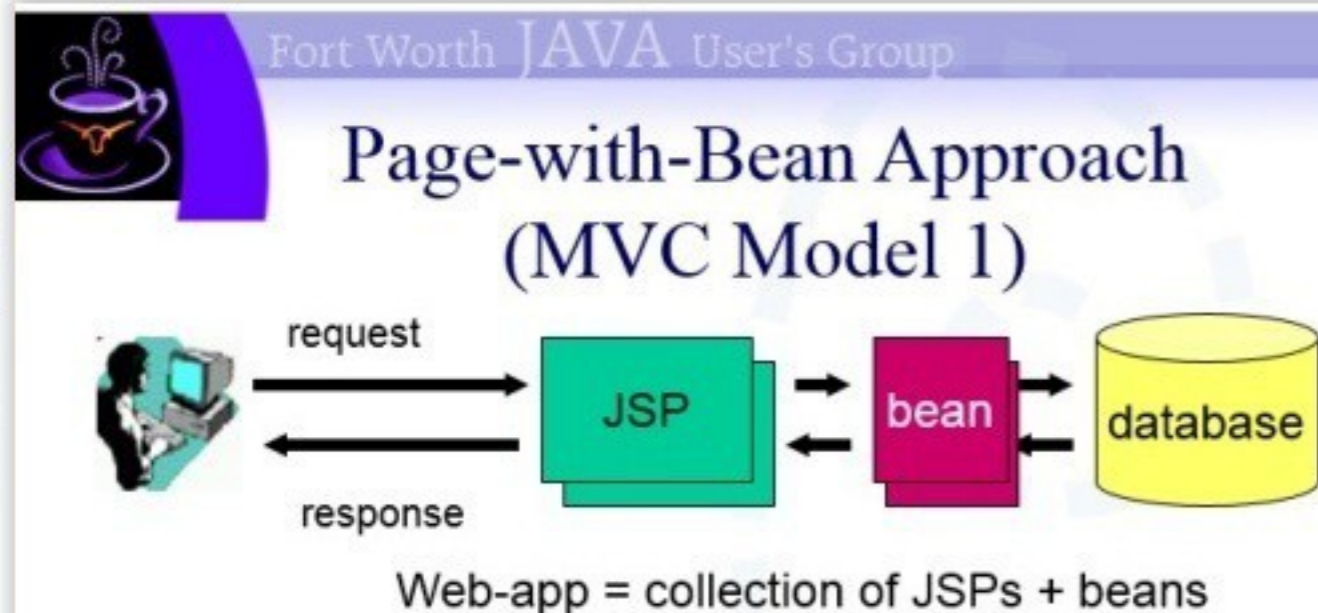
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- The JVM "verifier" checks the code when it is loaded to verify that it has the correct Structure -- that it does not use an uninitialized pointer, or mix int and pointer types. This is one-time "static" analysis -- checking that the code has the correct structure without running it.
- The JVM also does "dynamic" checking at runtime for certain operations, such as pointer and array access, to make sure they are touching only the memory they should. You will write code that runs into
- As a result, many common bugs and security problems (e.g. "buffer overflow") are not possible in java. The checks also make it easier to find many common bugs easy, since they are caught by the runtime checker.

- You will generally never write code that fails the verifier, since your compiler is smart enough to only generate correct code. You will write code that runs into the runtime checks all the time as you debug -- array out of bounds, null pointer.
- Java also has a runtime Security Manager can check which operations a particular pi of code is allowed to do. As a result, java can run untrusted code in a "sandbox" where for example, it can draw to the screen but cannot access the local file system.

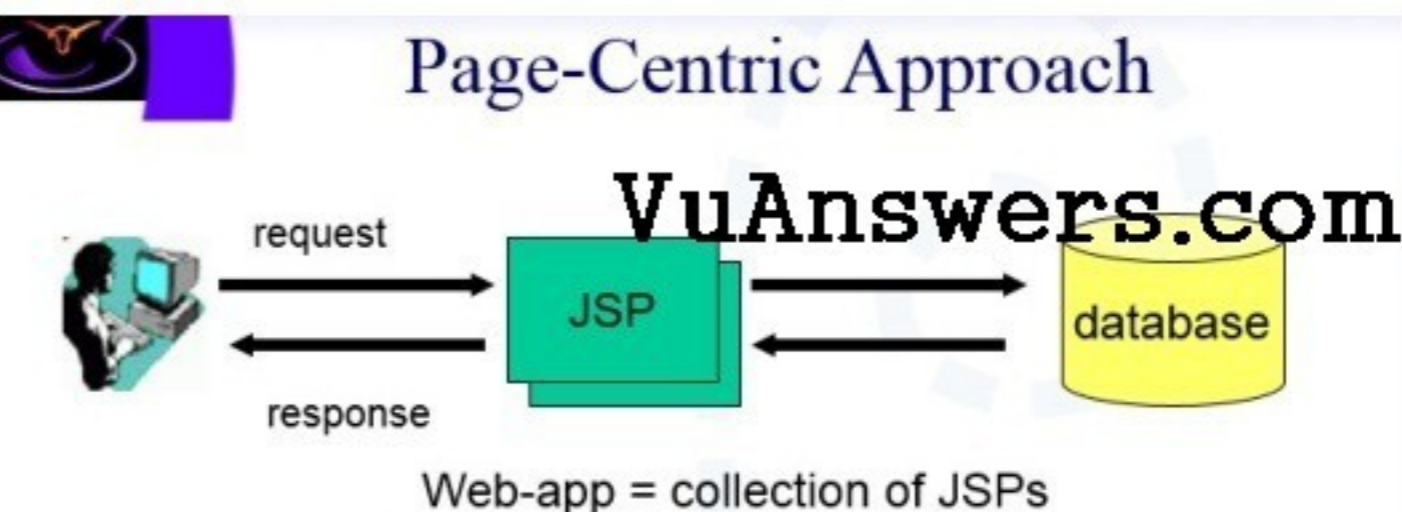
Made by: Waqar Siddhu

What is difference between Page-Centric Approach and Page-with-Bean Approach?



- + factors some of the business logic into beans
- insufficient separation of logics

This approach is different from page-centric approach in a way that all the business logic goes into JavaBeans. Therefore, the web application is a collection of JSPs and JavaBeans. But still



- + easy to get started (and carried away)
- code is a mixture of presentation, business & data access logic: a maintenance nightmare
- won't scale
- lots of duplications

Made by: Waqar Siddhu

You are required to write a Servlet code that will read the parameters passed from the login page. In a login page, user will enter username in text field uname and password in text field pass. If the user name is "vulms" and password is "admin" then send the user to "Welcome.jsp" else send the user to "Error.jsp"

Note: You are not required to write complete code. Just write code which will read form data and send response to Welcome or Error page.

Answer ([Please click here to Add Answer](#))

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```
import javax.servlet.*;  
import javax.servlet.http.*;
```

```
public class abc extends HttpServlet{  
public void doPost(HttpServletRequest request, HttpServletResponse response){  
servletContext con = this.getServletContext();  
String uname=con.getParameter("name");  
String upass= con.getParameter("pass");  
if(uname.isEqual("vulms") && (upass.isEqual("admin")  
response.sendRedirect(welcome.jsp)  
else  
response.sendRedirect(Error.jsp)
```

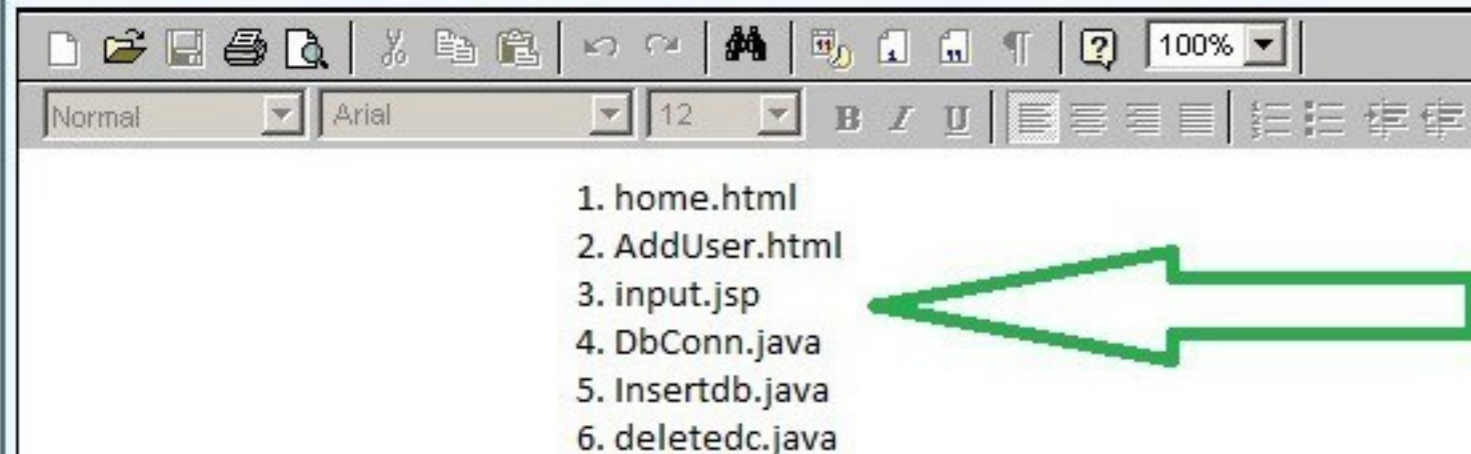
Made by: Waqar Siddhu

Arrange the following classes in packages. Use suitable name for package:

1. Dbconn.java
2. Input.jsp
3. Home.html
4. Insertdb.java
5. AddUser.html
6. Deletedb.java

Answer ([Please click here to Add Answer](#))

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The screenshot shows a rich text editor interface with a toolbar at the top containing icons for file operations, editing, and zooming. Below the toolbar is a formatting bar with options for font style (Normal), font face (Arial), font size (12), and bold/italic/underline. The main text area contains a numbered list of files:

1. home.html
2. AddUser.html
3. input.jsp
4. DbConn.java
5. Insertdb.java
6. deletedc.java

A large green arrow points from the right towards the second item, 'AddUser.html'.

My point of view.....

Approx...

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What is other technique to remove server side overhead while maintaining the state of user?

Answer ([Please click here to Add Answer](#))

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In order to maintain the conversational state, server puts little notes (some text, values etc) on the client side. When client submits the next form, it also unknowingly submits these little notes. Server reads these notes and able to recall who the client is.

for more detail page 287

Made by: Waqar Siddhu

Being a java web developer, you know each tag handler class must inherit from another class. What is name of that class?

Answer ([Please click here to Add Answer](#))

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Usually extend from `SimpleTagSupport` class that has already implemented `SimpleTag` interface.

- For example,

```
public class MyTagHandler extends SimpleTagSupport {  
.....  
.....  
}
```

Made by: Waqar Siddhu

What is use of [] operator in EL? Give one example.

Answer ([Please click here to Add Answer](#))

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The dot (.) and bracket ([]) operator let you access identifies and their properties. The dot operator typically used for accessing the *properties of an object* and the bracket operator is generally used to retrieve *elements of arrays and collections*.

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Is it necessary that each try block must be followed by a catch block? Give reasons to support your answer.

Answer ([Please click here to Add Answer](#))

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yes! bcz when a exception occurs in try block then we need a catch block where it would be caught and avoid to our program to terminate unexpectedly

Made by: Waqar Siddhu

In HashMap we can use put method to add objects into HashMap. Is the code given below correct or not? If there is problem then identify the problem.

```
h.put(1 , s1);  
h.put(2 , s2);  
h.put(3, s3);
```

its wrong

Answer ([Please click here to Add Answer](#))

VuAnswers.com



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first parameter should be a string

```
h.put("one" . s1);  
h.put("two" . s2);  
h.put("three" . s3);
```

Made by: Waqar Siddhu

Write a single line to include a page "vuHome.java" using custom tags. You can use any name for tags but mention which name you have chosen for which tag element:

Answer ([Please click here to Add Answer](#))

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```
<%@ page include="vuHome.java" name="chak_dum_dum" %>
```

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Write an Expression language equivalent to

1. Out implicit object of JSP
2. `request.getParameter("id");`

Answer ([Please click here to Add Answer](#))

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`$\$$ {out}`

equal to `PrintWriter out= this.getContext();`

- `$\$$ { param.name }`

- o This expression is equivalent to calling `request.getParameter("name");`

Made by: Waqar Siddhu

What is the purpose of hash maps in session tracking through cookies?

Answer ([Please click here to Add Answer](#))

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Servlet has one global HashMap (globalMap) in which HashMap of individual user (sessionInfo) are going to be stored. This (sessionInfo) HashMap stores the books selected by the user.

What's the part of cookies? Cookie (named JSESSIONID, with unique value) is used to keep the unique sessionID associated with each user. This sessionID is passed back and forth between user and the server and is used to retrieve the HashMap (sessionInfo) of the user from the global HashMap at the server. It should be noted here that, HashMaps of individual users are stored in a global HashMap against a sessionID.

Made by: Waqar Siddhu

Suppose p is an object of parent class, c is an object of is a child class.If the students name is "Zia" consider the following code and show the output:

```
p.display()  
System.out.println("Father Name: Ali ");  
}  
c.display(String name)
```

Answer ([Please click here to Add Answer](#))

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Made by: Waqar Siddhu

Being a java developer you have given a task to define two initialization parameters. Define first parameter for text file (out.txt) and other for DSN (studentDSN). You are required to write only necessary code.

Answer ([Please click here to Add Answer](#))

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```
<web-app version="3.1" xmlns="http://xmlns.jcp.org/xml/ns/javaee" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee http://xmlns.jcp.org/xml/ns/javaee/web-app_3_1.xsd">
  <servlet>
    <servlet-name>s</servlet-name>
    <servlet-class>servlet</servlet-class>
    <init-param>
      <param-name>DNS</param-name>
      <param-value>sun.JDBC</param-value>
    </init-param>
    <init-param>
      <param-name>Txtfile</param-name>
      <param-value>txt</param-value>
    </init-param>
  </servlet>
</web-app>
```

Made by: Waqar Siddhu

Write literals that can be used as an EL (expression language). Also write there possible values.

Answer ([Please click here to Add Answer](#))

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Literals	Literal Values
Boolean	true or false
Integer	Similar to Java e.g. 243, -9642
Floating Point	Similar to Java e.g. 54.67, 1.83
String	Any string delimited by single or double quote e.g. "hello", 'hello'
Null	Null

Made by: Waqar Siddhu

You are required to write a Servlet code that will read the parameters passed from the login page. In a login page, user will enter username in text field uname and password in text field pass. If the user name is "vulms" and password is "admin" then send the user to "Welcome.jsp" else send the user to "Error.jsp"

Note: You are not required to write complete code. Just write code which will read form data and send response to Welcome or Error page.

Answer ([Please click here to Add Answer](#))

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If we will not give width and height in applet tag then which one will get true?

- Applet will not run
- Applet will run but not visible
- Applet will run and visible

Answer ([Please click here to Add Answer](#))

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A wil run but not visible

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How JSP's are efficient?

Answer ([Please click here to Add Answer](#))

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use the tags..

combination of html+ servlets..JSP that provided more speed and security as well as better tools for web page creation.

Made by: Waqar Siddhu

When we use Page centric approach?

Answer ([Please click here to Add Answer](#))

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it has lot of drawbacks as mixture of all logic layers and scaling is difficult so this aproche used in small web application where maintanence would be any mess.

Kon / hat

A red handwritten signature or scribble, possibly reading 'Waqar'.

Made by: Waqar Siddhu

Write java code syntax which will create a cookie object c.

Create a Cookie Object

A cookie object can be created by calling the `Cookie` constructor, which takes two strings: the cookie name and the cookie value.

Answer ([Please click here to Add Answer](#))

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```
Cookies c = new Cookie("name", "value");
```

Made by: Waqar Siddhu

Write a statement to call an error page along with the "source not found" message using request dispatching technique.

Answer ([Please click here to Add Answer](#))

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```
requestDispatcher rd = request.getRequestDispatcher("file.jsp");
```

```
rd.sendError(800,"source not found");
```

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Write any six features that JSF provide?

Answer ([Please click here to Add Answer](#))

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- Representing UI components
- Managing their state
- Handling events
- Input validation
- Data binding
- Automatic conversion
- Defining page navigation
- Supporting internationalization and accessibility.

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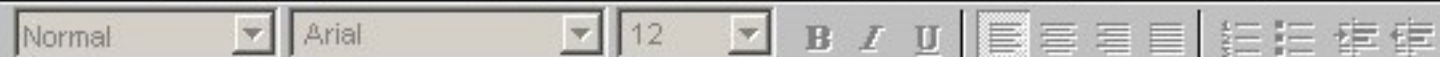
Identify and correct errors from the following code that implements inner class:

Note:Ignore syntax erros if any.

```
import java.awt.*;  
import javax.swing.*;  
import java.awt.event.*;
```

Answer ([Please click here to Add Answer](#))

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Made by: Waqar Siddhu

Suppose you have two (index.jsp and error.jsp) files.

You want, when index.jsp file generate any exception user should automatically jump error.jsp page.

What you will write in page directive of index.jsp page to jump error.jsp page automatically. Also what you will write in page directive of error.jsp page to make it error page.

Answer ([Please click here to Add Answer](#))

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`<%@ isErrorPage="true" %>`

first part ka ans nhi
pata sooooooory

Made by: Waqar Siddhu

What is difference between socket and server socket? Also right java syntax to create socket and server socket. Write solution by filling given table.

Socket	Server Socket

Answer ([Please click here to Add Answer](#))

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Made by: Waqar Siddhu

What will be the output of following program?

MyServlet process request method:

```
protected void processRequest(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
response.setContentType("text/html");
```

Answer ([Please click here to Add Answer](#))

VuAnswers.com



Made by: Waqar Siddhu

Use the following Bean placed in "IslamRules" package using JSP action element. Value of amount is taken from the form field "amount".

```
public class ZakatBean implements Serializable {  
private int amount;  
private int zakat;
```

Answer ([Please click here to Add Answer](#))

VuAnswers.com



Made by: Waqar Siddhu

Draw and divide the components of internet banking(Client,web Server and DB server) into three layered approach?

Answer ([Please click here to Add Answer](#))

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Made by: Waqar Siddhu

What are advantages of hash tables?

VuAnswers.com

Answer ([Please click here to Add Answer](#))



Made by: Waqar Siddhu

What type of problem persists with Struts Framework?

VuAnswers.com

Answer ([Please click here to Add Answer](#))



Made by: Waqar Siddhu

Write any three limitations of default ResultSet object.

VuAnswers.com

Answer ([Please click here to Add Answer](#))



Made by: Waqar Siddhu

What refers to "this" in following statement and what is the meaning of following line in both cases if it returns true or false ?

```
onsubmit="return validate_Form(this)"
```

Answer ([Please click here to Add Answer](#))

VuAnswers.com



Made by: Waqar Siddhu

Suppose a web page is sending phone number and address of a student to server. Write servlet code which will read both values at server end. If any of value is blank show message "please enter value".

Note: assume boxes names are phnumber and address. You are not required to write complete code. Write code that can perform required task.

Answer ([Please click here to Add Answer](#))

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Made by: Waqar Siddhu

What is the difference between variable declared inside a declaration part and variable declared in scriptlet part?

VuAnswers.com

Answer ([Please click here to Add Answer](#))



Made by: Waqar Siddhu

What is the difference between node and filter streams? If we get the data from user and compresses it to the required format which streams will be used as node stream and filter stream?

Answer ([Please click here to Add Answer](#))

VuAnswers.com



Made by: Waqar Siddhu

What are benefits of partitioning the application in logical layers?

VuAnswers.com

Answer ([Please click here to Add Answer](#))



Made by: Waqar Siddhu

What are the advantages of Cookies over URL rewriting?

VuAnswers.com

Answer ([Please click here to Add Answer](#))



Made by: Waqar Siddhu

You are required to write a Servlet code that will read the parameters passed from the login page. In a login page, user will enter username in text field uname and password in text field pass. If the user name is "vulms" and password is "admin" then send the user to "Welcome.jsp" else send the user to "Error.jsp"

Note: You are not required to write complete code. Just write code which will read form data and send response to Welcome or Error page.

Answer ([Please click here to Add Answer](#))

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Made by: Waqar Siddhu

What is the purpose of try block in java program?

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Answer ([Please click here to Add Answer](#))



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Made by: Waqar Siddhu

How do we know which methods does web service provide?

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Answer ([Please click here to Add Answer](#))



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Made by: Waqar Siddhu

See the code given below and convert scriptlet tag to equivalent jsp useBean action element. Consider StudentBean class is in package academic.

```
<%  
StudentBean bean = new StudentBean();  
%>
```

Answer ([Please click here to Add Answer](#))

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Made by: Waqar Siddhu

Why do we use Session Tracking in HttpServlet?

VuAnswers.com

Answer ([Please click here to Add Answer](#))



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In term of coding event handling is three steps process. Writes these steps in correct order.

Answer ([Please click here to Add Answer](#))

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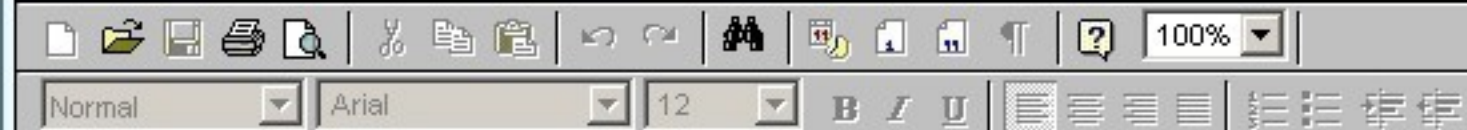
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Make three hidden fields for name, id and marks with any values you want?

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Answer ([Please click here to Add Answer](#))



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The code given below is an ordinary java class. Convert it from ordinary java class to java bean class.

```
public class StudentBean {  
String email;  
String address;
```

Answer ([Please click here to Add Answer](#))

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Made by: Waqar Siddhu

```
// zero argument constructor
public StudentBean(){
    email = "";
    address = "";
}
// standard setter
```

Answer ([Please click here to Add Answer](#))

VuAnswers.com

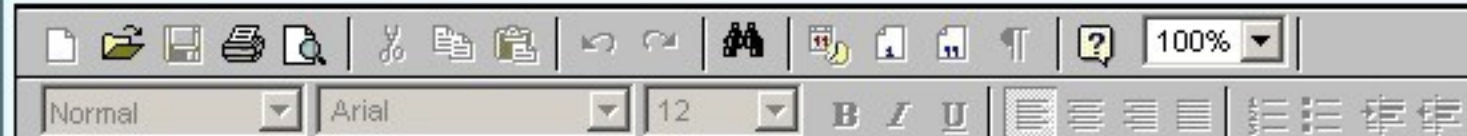


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```
}  
// standard setter  
public void setEmail(String n) {  
    email = n;  
}  
// standard getter
```

Answer ([Please click here to Add Answer](#))

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Made by: Waqar Siddhu

```
public String getEmail() {  
    return email;  
}  
  
// standard setter  
public void setAddress(String n) {
```

Answer ([Please click here to Add Answer](#))

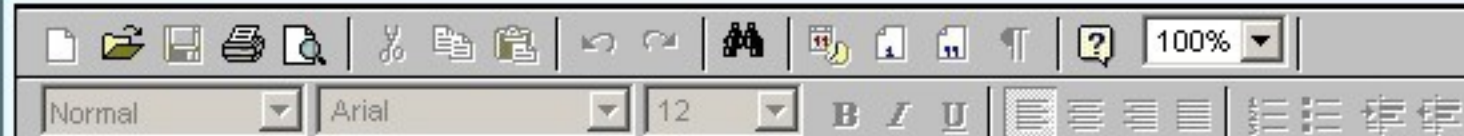
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```
public void setAddress(String n) {  
    address = n;  
}  
// standard getter  
public String getAddress() {  
    return address;  
}
```

Answer ([Please click here to Add Answer](#))

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```
    }  
    // standard getter  
    public String getAddress() {  
        return address;  
    }  
} //end class
```

Answer ([Please click here to Add Answer](#))

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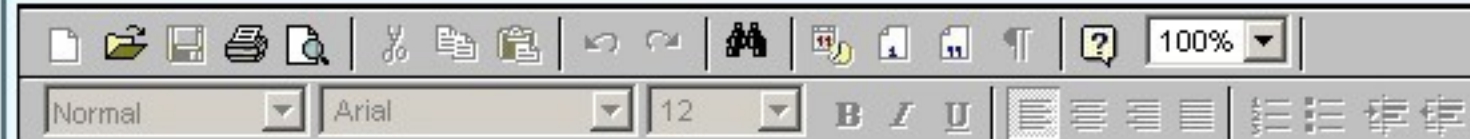


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In which situation we can use Expression Language?

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Answer ([Please click here to Add Answer](#))



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Write the names of any five event listener interfaces which are sub interfaces of java.util.EventListener interface.

Answer ([Please click here to Add Answer](#))

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What is the difference between service () method of generic servlet and http servlet? Explain complete sequence of request forwarding.

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Answer ([Please click here to Add Answer](#))



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Made by: Waqar Siddhu

Implement the following code using JSTL tags:

```
<%  
ArrayList students = (ArrayList)request.getAttribute("sList");  
for(int i=0; i<students.size(); i++)  
{  
StudentInfo s = (StudentInfo)students.get(i);
```

Answer ([Please click here to Add Answer](#))

VuAnswers.com

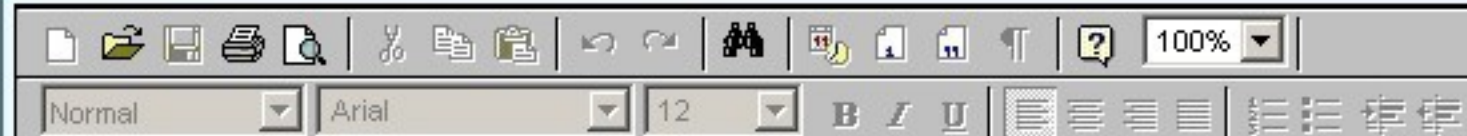


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```
String name = s.getName();  
%>  
<%= name %>  
<%  
} // end for  
%>
```

Answer ([Please click here to Add Answer](#))

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Which type of information is present in (.tld) file? Mention any five.

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Answer ([Please click here to Add Answer](#))



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When do we need to make abstract class?

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Answer ([Please click here to Add Answer](#))

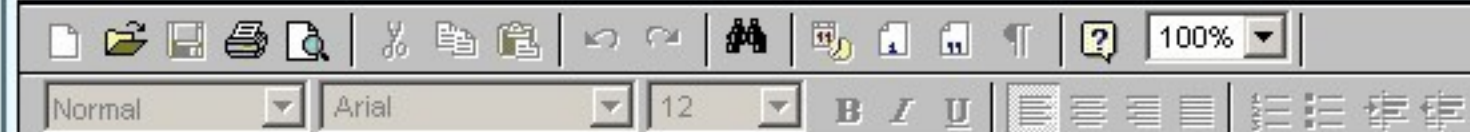


Made by: Waqar Siddhu

How clients find web services?

VuAnswers.com

Answer ([Please click here to Add Answer](#))

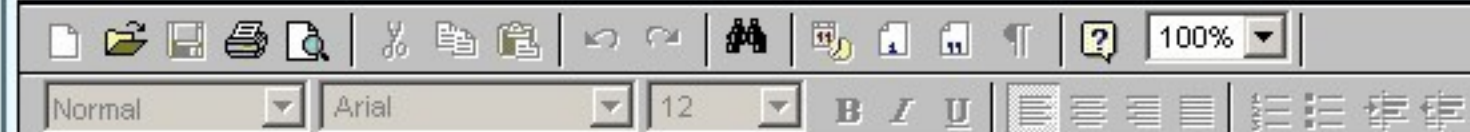


Made by: Waqar Siddhu

Request of one page can be dispatched to other page using two methods. Write the code syntax of both methods.

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Answer ([Please click here to Add Answer](#))

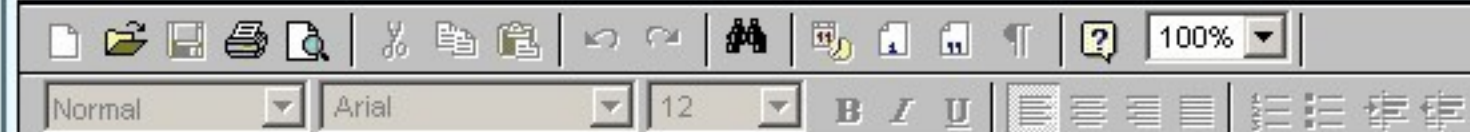


Made by: Waqar Siddhu

How we write **include** directive in JSP page. Write only JSP code syntax.

VuAnswers.com

Answer ([Please click here to Add Answer](#))



Made by: Waqar Siddhu

Write a method drawJava() that chooses random color from the standard RGB colors and prints "Hello" at 100 different locations with the specified color.

VuAnswers.com

Answer ([Please click here to Add Answer](#))

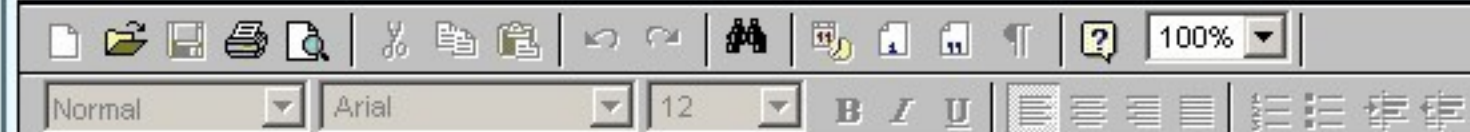


Made by: Waqar Siddhu

Does java support automatic type conversion? Support your answer.

VuAnswers.com

Answer ([Please click here to Add Answer](#))



Made by: Waqar Siddhu

Suppose two initialization parameter values are defined in xml file. Being a java web developer, how you will read the values of both parameters at server end.

Note: Suppose the names of parameters are ipaddress and sender. You are not required to write complete code. Write code which will on values.

VuAnswers.com

Answer ([Please click here to Add Answer](#))



Made by: Waqar Siddhu

Custom tags have three forms. Write the name of each form.

VuAnswers.com

Answer ([Please click here to Add Answer](#))



Made by: Waqar Siddhu

Create a server program that receives user's NIC number from client and sends it back to the client whose IP address is: 196.192.1.2 residing on the port 1008. server resides on the 1299 port. The message should be sent in the following format:

"Your [user given NIC number] shall be safe".
You are not supposed to write a client program.

VuAnswers.com

Answer ([Please click here to Add Answer](#))

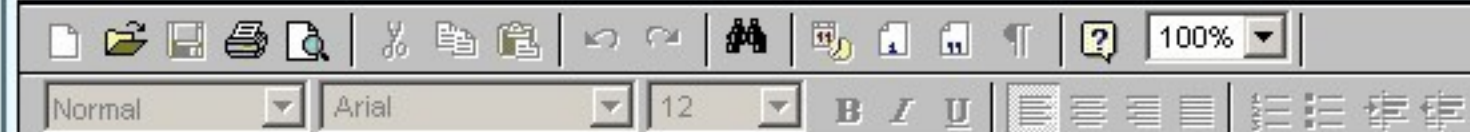


Made by: Waqar Siddhu

Differentiate between JSP's and servlets with example codes.

VuAnswers.com

Answer ([Please click here to Add Answer](#))



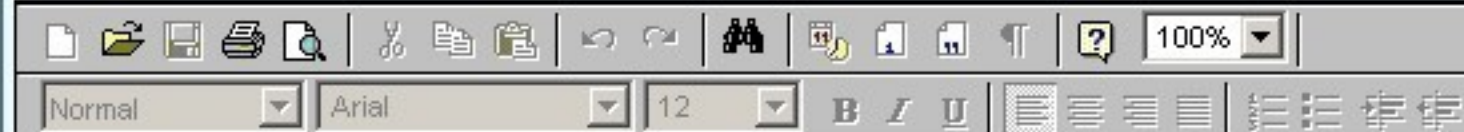
Made by: Waqar Siddhu

To simplify code in JSP expressions and scriptlets eight variables or implicit objects are already defined in JSP API. Three of them are already given below. Write the names of other five objects.

0. request
1. response
2. out
3. ...

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Answer ([Please click here to Add Answer](#))



Made by: Waqar Siddhu

Differentiate between web pages and web services?

VuAnswers.com

Answer ([Please click here to Add Answer](#))



Normal 12 **B** *I* U

Made by: Waqar Siddhu

What is the difference between client socket and server socket?

Answer ([Please click here to Add Answer](#))

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As soon as client creates a socket that socket attempts to connect to the specified server.

- The server listens through a special kind of socket, which is named as server socket.
- The sole purpose of the server socket is to listen for incoming request; it is not used for communication

Made by: Waqar Siddhu

What is tag library?

Answer ([Please click here to Add Answer](#))

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The JSP Standard Tag Library (JSTL) is a collection of custom tag libraries

Made by: Waqar Siddhu

EL (expression language) uses four different scopes to search an object or property. Write the name of each scope.

Scopes	pageScope	A <i>Map</i> associating names & values of <i>page</i> scoped attributes
	requestScope	A <i>Map</i> associating names & values of <i>request</i> scoped attributes
	sessionScope	A <i>Map</i> associating names & values of <i>session</i> scoped attributes
	applicationScope	A <i>Map</i> associating names & values of <i>application</i> scoped attributes

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here we just write the names.. just

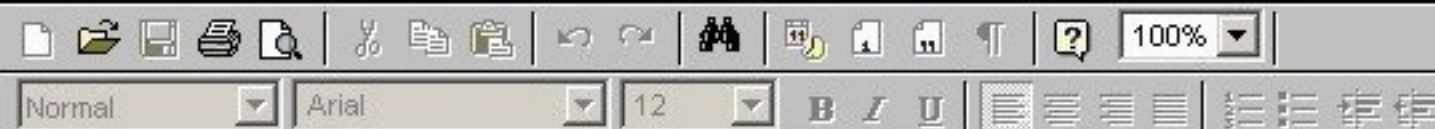
- i) Page Scop
- ii) requestScope
- iii) SessionScope
- iv) applicaionScope

Made by: Waqar Siddhu

Write a code statement to remove the value associated with the "amazonSession" of object "session".

Answer ([Please click here to Add Answer](#))

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removeAttribute(String)

○ This method removes values associated with the name

```
Session.removeAttribute("amazonSession");
```

Made by: Waqar Siddhu

Define polymorphism with respect to DryFruits, Fruits and FreshFruits?

Genrl Idea of polymorephism



“Polymorphic” literally means **“of multiple shapes”** and in the context of **OOP**, **Polymorphic** means **“having multiple behaviors”**.

- * A parent class reference can point to the subclass objects because of is-a relationship.
- * A polymorphic method results in different actions depending on the object being referenced
- o Also known as late binding or run-time binding

Answer ([Please click here to Add Answer](#))

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Fruits is an Abstract class , and DeyFruits, and FreshFruits Both are Child classes and have to make them cancreate classes

Made by: Waqar Siddhu

Why HTTP is made stateless protocol? Explain with example.

Answer ([Please click here to Add Answer](#))

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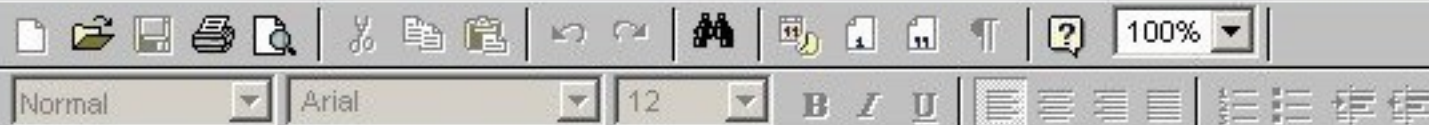
HTTP is a stateless protocol. Every request is considered independent of every other request. But many applications need to maintain a conversational state with the client. A shopping cart is a classical example of such conversational state.

Made by: Waqar Siddhu

What impact a JavaBeans object can produce when it is stored in an Application?

Answer ([Please click here to Add Answer](#))

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These conventions are:

- A bean class must have a zero argument constructor
- A bean class should not have any public instance variables/attributes (fields)
- Private values should be accessed through setters/getters
- A bean class must be **serializable**

for point four. NOte serialization..
pasing the objects.....

serialize an object means to convert its state to a byte stream so that the byte stream can be reverted back into a copy of the object. A Java object is serializable if its class or any of its superclasses implements either the java.io.Serializable interface or its subinterface

Made by: Waqar Siddhu

Why do we use client side validation?

Answer ([Please click here to Add Answer](#))

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There are two good reasons to use client-side validation:

- **It's a fast form of validation: if something's wrong, the alarm is triggered upon submission of the form.**
- **You can safely display only one error at a time and focus on the wrong field, to help ensure that the user correctly fills in all the details you need**

Made by: Waqar Siddhu

Differentiate between JSP's and servlets with example codes.

JSP that is displaying a current date. This page more looks like a HTML page except of two strangely written lines of codes. Also there are no signs of doGet(), doPost().

Answer ([Please click here to Add Answer](#))

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100% servlets

JSP code:-

```
<%@ page import="java.util.*" %>
<html>
<body>
<h3>
Current Date is:<%= new Date()%>
</h3>
</body>
</html>
```

```
import javax.servlet.http.*;
import javax.servlet.*;
```

must call , do get, or do post

```
public class abc extend HttpServlet{
public void dopost(HttpServletRequest request,
HttpServletResponse response){
```

```
PrintWiter out= response.getwRITER()
try{
OUT.PRINT("<html>")
OUT.PRINT("<body>")
```

```
OUT.PRINT("<h1>hello</h1>")
```

Made by: Waqar Siddhu

Use the following Bean placed in "IslamRules" package using JSP action element. Value of amount is taken from the form field "amount".

```
public class ZakatBean implements Serializable {  
private int amount;  
private int zakat;
```

Answer ([Please click here to Add Answer](#))

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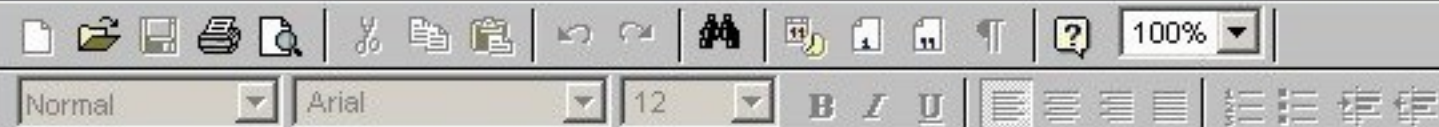


Made by: Waqar Siddhu

What are benefits of partitioning the application in logical layers?

Answer ([Please click here to Add Answer](#))

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Each layer performs a specific functionality which should not be mixed with other layers. Layers are isolated from each other to reduce coupling between them but they provide interfaces to communicate with each other.

Made by: Waqar Siddhu

Following are the contents of file 1.txt

My name is ali.

My roll no is bc020400001.

I am studying java.

Java is very easy.

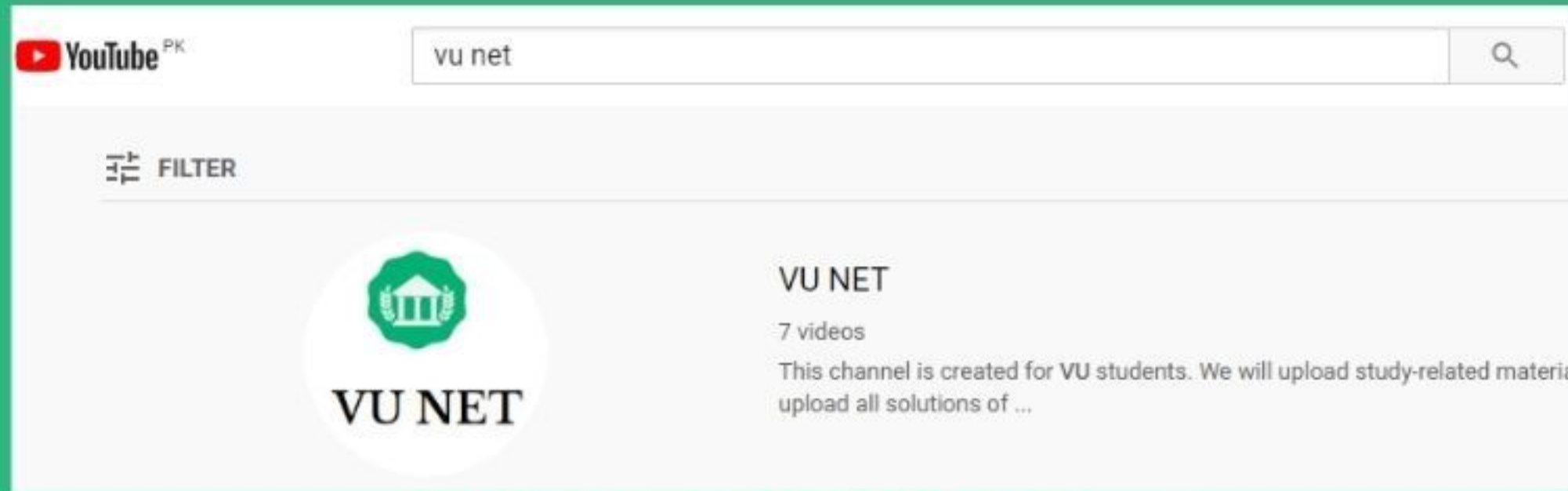
Answer ([Please click here to Add Answer](#))

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