

# VIRTUAL UNIVERSITY OF PAKISTAN

A Good Education is a Foundation For a Better Future

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## (Final Term Past Paper)

MADE AND SOLVED BY TEAM HADI

WARNING: Team HADI is not responsible for any mistake or wrong answer. All students reading and using this document may check and confirm the answers at their own.



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Best of luck!



Question No : 1 of 52

Marks: 1 (Budgeted Time 1 Min)

A \_\_\_\_\_ statement specifies that an action is to be repeated while some condition remains true.

Answer ( Please select your correct option )

- repetition
- control
- conditional
- assignment

correct

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Question No : 2 of 52

Marks: 1 (Budgeted Time 1 Min)

The operators ++ and -- are used to increment or decrement the value of a variable by \_\_\_\_\_

Answer ( Please select your correct option )

- 3
- 2
- 1 **correct**
- 4

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Question No : 3 of 52

Marks: 1 (Budgeted Time 1 Min)

Variables which hold memory addresses are called \_\_\_\_\_

Answer ( Please select your correct option )

- Pointer Variables
- Local variables
- Local objects
- Function Variables

**correct**

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Question No : 4 of 52

Marks: 1 (Budgeted Time 1 Min)

The condition in loop should be a(n) \_\_\_\_\_.

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Answer ( Please select your correct option )

- Arithmetic Expression **correct**
- Constant Expression
- Boolean Expression
- Primary Expression

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Question No : 5 of 52

Marks: 1 (Budgeted Time 1 Min)

When **break** statement is encountered in a loop body it \_\_\_\_\_.

Answer ( Please select your correct option )

transfers the control outside from current loop

**correct**

transfers the control outside from current program

enforces the next iteration of loop

generates compile time error

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Question No : 6 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following is not an example of int data type?

Answer ( Please select your correct option )

- 0
  - 32
  - 65531
  - 4.0
- correct**

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Question No : 7 of 52

Marks: 1 (Budgeted Time 1 Min)

The dynamic memory allocation uses memory from the \_\_\_\_\_.

Answer ( Please select your correct option )

- Stack
- Heap
- System Cache
- Secondary Storage

**correct**

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Question No : 8 of 52

Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ executes all the lines before error and stops at the line which contains the error.

Answer ( Please select your correct option )

Intrepreter

**correct**

Compiler

Linker

Debugger

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Question No : 9 of 52

Marks: 1 (Budgeted Time 1 Min)

The return type of a function that does not return any value must be \_\_\_\_\_.

Answer ( Please select your correct option )

- float
- int
- void **correct**
- double

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Question No : 10 of 52

Marks: 1 (Budgeted Time 1 Min)

In C/C++, when two programs a and b are trying to open a file xyz.txt at same time then \_\_\_\_\_.

Answer ( Please select your correct option )

- Both programs will generate error
- Only one of them will succeed in opening that file and other will fail
- Both programs will open the file
- One of the program will re-start

**correct**

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Question No : 11 of 52 Marks: 1 (Budgeted Time 1 Min)

Which of the following is the correct C++ syntax to allocate space dynamically for an array of 10 int?

Answer ( Please select your correct option )

- new int(10) ;
- new int[10] ; correct
- int new(10) ;
- int new[10];

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Question No : 12 of 52

Marks: 1 (Budgeted Time 1 Min)

The **ws** manipulator can be used with \_\_\_\_\_ stream(s).

Answer ( Please select your correct option )

- Output
- Input **correct**
- Input/Output
- Buffered

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Question No : 13 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following is not a value of base field in set flag function ?

Answer ( Please select your correct option )

- oct
- bin
- dec
- hex

**correct**

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Question No : 14 of 52

Marks: 1 (Budgeted Time 1 Min)

The return type of the operator function for << operator is \_\_\_\_\_.

Answer ( Please select your correct option )

- class for which we overload operator
- reference of ostream class (ostream&)
- reference of istream class (istream&)
- void

correct

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Question No : 15 of 52

Marks: 1 (Budgeted Time 1 Min)

The parameter passed to the user-defined manipulator during its definition is an object of \_\_\_\_\_.

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Answer ( Please select your correct option )

- ofstream
- instream
- ostream
- ifstream

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Question No : 16 of 52

Marks: 1 (Budgeted Time 1 Min)

The operator function overloaded for an assignment operator (=) must be \_\_\_\_\_.

Answer ( Please select your correct option )

- Friend function of class
- Non-member function of Friend function
- Non-member function of class
- Member function of class

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Question No : 17 of 52

Marks: 1 (Budgeted Time 1 Min)

With template function, the compiler automatically detects the \_\_\_\_\_ and generates \_\_\_\_\_ using passed data.

Answer ( Please select your correct option )

- passed data , a new copy of function
- parameters, an old copy of function
- old copy of function, parameters
- parameters, an new copy of function

**correct**

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Question No : 18 of 52

Marks: 1 (Budgeted Time 1 Min)

Templates provide way of abstracting \_\_\_\_\_ information.

Answer ( Please select your correct option )

- type **correct**
- data
- method
- access

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Question No : 19 of 52

Marks: 1 (Budgeted Time 1 Min)

The appropriate data type to store the number of rows and columns of the matrix is \_\_\_\_\_.

Answer ( Please select your correct option )

- float
- strings
- int **correct**
- char

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Question No : 20 of 52

Marks: 1 (Budgeted Time 1 Min)

The operator function will be implemented as \_\_\_\_\_, if both objects (obj1, obj2) are passed as arguments to - operator in the statement given below.  
obj3 = obj1 - obj2;

Answer ( Please select your correct option )

- friend function
- member function **correct**
- non-member function
- either non-member or friend function

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Question No : 21 of 52

Marks: 1 (Budgeted Time 1 Min)

By using objects as class members, \_\_\_\_\_ is achieved.

Answer ( Please select your correct option )

- Accessibility
- Reliability
- Reusability
- Usability

**correct**

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Question No : 22 of 52

Marks: 1 (Budgeted Time 1 Min)

In the member initializer list, the data members are initialized \_\_\_\_\_.

Answer ( Please select your correct option )

- From left to right
- From right to left
- In the order in which they are defined within class
- There is no order for initialization

**correct**

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Question No : 23 of 52

Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ data members of a contained object can be accessed from inside of the containing class.

Answer ( Please select your correct option )

- Private **correct**
- Public
- Protected
- All

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Question No : 24 of 52

Marks: 1 (Budgeted Time 1 Min)

The statement cin.get (); is used to \_\_\_\_\_.

Answer ( Please select your correct option )

Read a string from keyboard

Read a character from keyboard **correct**

Read a string from file

Read a character from file

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Question No : 25 of 52

Marks: 1 (Budgeted Time 1 Min)

When an object of a class is defined inside an other class then \_\_\_\_\_.

Answer ( Please select your correct option )

Constructor of enclosing class will be called first

**correct**

Constructor of inner object will be called first

Constructor and Destructor will be called simultaneously

Only destructor will be called

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Question No : 26 of 52

Marks: 1 (Budgeted Time 1 Min)

The order of destruction of an object is \_\_\_\_\_.

Answer ( Please select your correct option )

- same as the construction order.
- reverse as the construction order.
- independent of the construction order.
- same as the order of objects declared.

**correct**

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Question No : 27 of 52

Marks: 1 (Budgeted Time 1 Min)

When we define an array of objects then \_\_\_\_\_.

Answer ( Please select your correct option )

- Destructor will be called once for the whole array
- Destructor will be called for each object of the array
- No Destructor will be called
- Destructor for only first object in the array will be called

correct

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Question No : 28 of 52

Marks: 1 (Budgeted Time 1 Min)

At the time of linking, library functions are available in the \_\_\_\_\_ form.

Answer ( Please select your correct option )

- compiled
- text
- correct
- runnable
- code

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Question No : 29 of 52

Marks: 1 (Budgeted Time 1 Min)

If we define an identifier with the statement #define PI 3.1415926 then during the execution of the program, the value of PI \_\_\_\_\_

Answer ( Please select your correct option )

- can not be replaced
- can be changed by using function
- remains constant
- can be changed by some operation

**correct**

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Question No : 30 of 52 Marks: 1 (Budgeted Time 1 Min)

The functions used for dynamic memory allocation return pointer of type \_\_\_\_\_.

Answer ( Please select your correct option )

- int
  - float
  - double
  - void
- correct**

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Question No : 31 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following is a valid class declaration?

Answer ( Please select your correct option )

class B { }

public class A { }

object A { int x; };

class A { int x; };

**correct**

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Question No : 32 of 52 Marks: 1 (Budgeted Time 1 Min)

If constructor contains a return statement in its body then compiler will give \_\_\_\_\_.

Answer ( Please select your correct option )

- No error
- Syntax error **correct**
- Logical error
- Run time error

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Question No : 33 of 52

Marks: 1 (Budgeted Time 1 Min)

Which one of the given options is correct prototype syntax for overloaded operator?

Answer ( Please select your correct option )

- return-type operator-symbol (parameter-list) operator;
- operator return-type operator-symbol (parameter-list);
- return-type operator operator-symbol (parameter-list);
- return-type operator-symbol operator (parameter-list);

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Question No : 34 of 52

Marks: 1 (Budgeted Time 1 Min)

The following prototype of unary operator function indicates that it is \_\_\_\_\_.  
Date operator++(int)

Answer ( Please select your correct option )

- Member functions of post increment operator
- Member functions of pre increment operator
- Non-member functions of post increment operator
- Non-member functions of pre increment operator

correct

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Question No : 35 of 52

Marks: 1 (Budgeted Time 1 Min)

Consider the following code segment.

```
class M {  
public:  
    M &operator+(const M &);  
....  
}
```

Answer ( Please select your correct option )

- Member function
- Non-member function
- Friend function
- Virtual function

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Question No : 36 of 52

Marks: 1 (Budgeted Time 1 Min)

Consider the following code segment

```
class M {  
    friend int operator!(const M &);  
    ...  
};
```

Answer ( Please select your correct option )

- Member function
- Non-member function
- Binary operator function
- Friend Function

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Question No : 37 of 52 Marks: 1 (Budgeted Time 1 Min)

When we define an array of objects then \_\_\_\_\_.

Answer ( Please select your correct option )

- Constructor will be called once for whole array
- Constructor will be called for each object of the array
- Constructor will never call
- Depends on the size of array

correct

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Question No : 38 of 52

Marks: 1 (Budgeted Time 1 Min)

While overloading new and delete operators, we should take care that \_\_\_\_\_.

Answer ( Please select your correct option )

- They should be overloaded for specific types instead of overloading globally.
- Both of these operators should not be overloaded in the same program.
- We should never overload either of these operators.
- They should be not overloaded for specific types instead of overloading globally.

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Question No : 39 of 52

Marks: 1 (Budgeted Time 1 Min)

When the logical operator AND (&&) combines two expressions exp1 and exp2 then the result will be true only \_\_\_\_\_

Answer ( Please select your correct option )

When both exp1 and exp2 are true

When both exp1 and exp2 are false

When exp1 is true and exp2 is false

When exp1 is false and exp2 is true

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Question No : 40 of 52

Marks: 1 (Budgeted Time 1 Min)

In top down \_\_\_\_\_ programming a problem is broken into small pieces or modules and each small piece corresponds to a function.

Answer ( Please select your correct option )

- Object Oriented
- Structured
- Assembly
- High level

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Question No : 41 of 52

Marks: 2 (Budgeted Time 4 Min)

What is returned by new operator?

Answer ( Please click here to Add Answer )

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Question No : 42 of 52

Marks: 2 (Budgeted Time 4 Min)

Explain the meaning of given C++ statement: `const int *ptr = &x;`

Answer ( Please click here to Add Answer )

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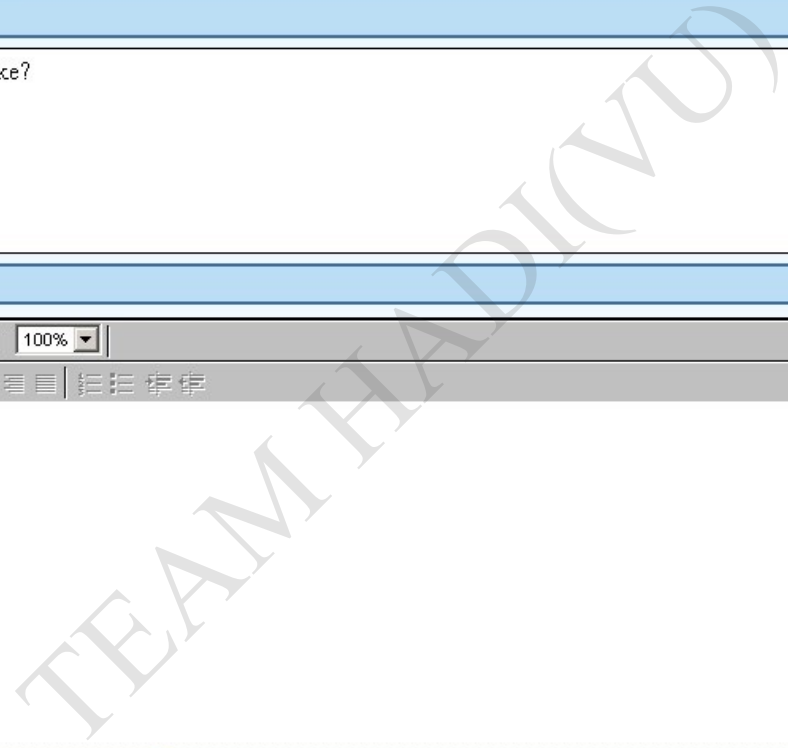
Question No : 43 of 52

Marks: 2 (Budgeted Time 4 Min)

Write main types of operators based on number of operands they take?

Answer ( Please click here to Add Answer )

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Question No : 44 of 52

Marks: 2 (Budgeted Time 4 Min)

Write down the meaning of given below line of code, where m is an object of class Matrix

```
if( &m != this)
```

Answer ( Please click here to Add Answer )

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Question No : 45 of 52

Marks: 3 (Budgeted Time 6 Min)

If we initialize an array as given below then how much memory will be allocated to the array "name" and why?

```
char name [] = "Hello World";
```

Answer ( Please click here to Add Answer )



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Question No : 46 of 52

Marks: 3 (Budgeted Time 6 Min)

What will be the output of the following code snippet?

```
int x = 10;  
int &y = x;  
y+=5;  
cout << x;
```

Answer ( Please click here to Add Answer )

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Question No : 47 of 52

Marks: 3 (Budgeted Time 6 Min)

Read the given below code and explain what task is being performed by this function

```
Matrix :: Matrix ( int row , int col )  
{  
    numRows = row ;  
    numCols = col ;
```

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

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Question No : 48 of 52

Marks: 3 (Budgeted Time 6 Min)

Which one (copy constructor or assignment operator) will be called in each of the following code segment?

- 1) Matrix m1 (m2);
- 2) Matrix m1, m2;  
m1 = m2;

Answer ( Please click here to Add Answer )

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Question No : 49 of 52

Marks: 5 (Budgeted Time 10 Min)

Write a program which defines a Template function named **Add ()** which adds two variables and then returns the sum. Define two variables of type **int** in main function, and then call **Add ()** function on these variables.

Program output should look like this:

Answer ( Please click here to Add Answer )

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Question No : 50 of 52

Marks: 5 (Budgeted Time 10 Min)

Explain the logic of given program and write down its output.

```
#include <string.h>
#include <iostream.h>

int main()
```

Answer ( Please click here to Add Answer )

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Question No : 51 of 52

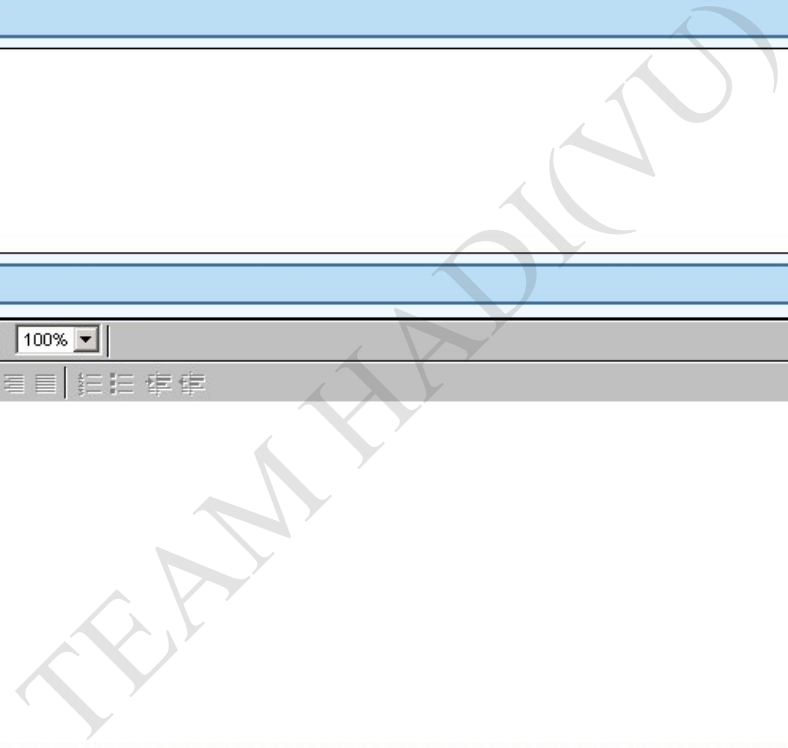
Marks: 5 (Budgeted Time 10 Min)

Given is the code for a class String.

```
class String {  
    private:
```

Answer ( Please click here to Add Answer )

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Question No : 52 of 52

Marks: 5 (Budgeted Time 10 Min)

Write a program which defines three variables of type double and store three different values including decimal points in these variables, using setprecision manipulators print all these values with different number of digits after the decimal point.

Answer ( Please click here to Add Answer )

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Question No : 51 of 52

Marks: 5 (Budgeted Time 10 Min)

```
char *str;
```

```
public:
```

```
String();
```

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

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Question No : 51 of 52

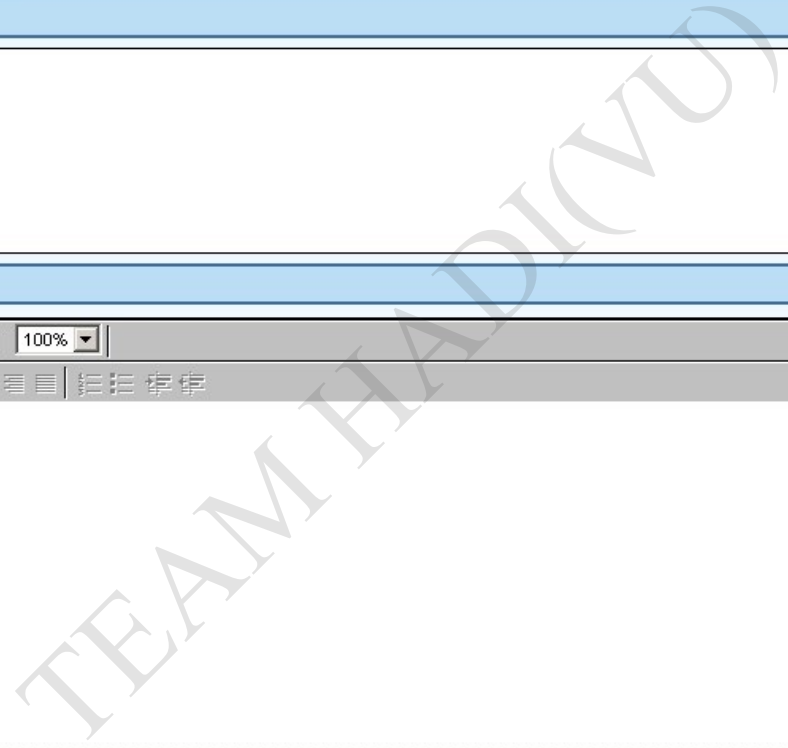
Marks: 5 (Budgeted Time 10 Min)

```
String( char *s)
(
  int length = strlen(s);

  str = new char [length + 1];
```

Answer ( Please click here to Add Answer )

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Question No : 51 of 52

Marks: 5 (Budgeted Time 10 Min)

```
strcpy(str, s);  
}  
  
};
```

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

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Question No : 51 of 52

Marks: 5 (Budgeted Time 10 Min)

};

You are required to write the code for overloading the + operator for the above class to add two objects of type String.

**Note:** Adding two strings means concatenating the two strings.

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

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Question No : 50 of 52

Marks: 5 (Budgeted Time 10 Min)

```
char str[] = "This is a line";  
char *p;  
  
p = strchr(str, 's');
```

Answer ( Please click here to Add Answer )

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Question No : 50 of 52

Marks: 5 (Budgeted Time 10 Min)

```
while (p != NULL) {  
    cout<<"found at \n"<<p - str + 1;  
    p = strchr(p + 1, 's');  
}
```

Answer ( Please click here to Add Answer )

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Question No : 50 of 52

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```
cout<<endl;return 0; }  
p = strchr(p + 1, 's');  
}  
return 0;  
}
```

Answer ( Please click here to Add Answer )

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Question No : 49 of 52

Marks: 5 (Budgeted Time 10 Min)

Enter two integer values to be added

Enter First value:

12

Enter Second value:

25

Answer ( Please click here to Add Answer )

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Question No : 49 of 52

Marks: 5 (Budgeted Time 10 Min)

Enter Second value:  
25  
Addition of two variable of different data type  
Sum = 37

Answer ( Please click here to Add Answer )

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