

CS101 FINAL TERM PAST PAPER SOLVED

BY VU TEAM HADI

QUESTION: Translator which is used to convert codes of assembly language into machine language is termed as:

Assembler

Attempter
Compiler
Debugger

QUESTION: The problems associated with general image analysis are:

Less

Enormous

Not common
Reduced

QUESTION: _____ is a powerful application for developing websites and mobile applications.

MS Access
MS Office

Adobe Dreamweaver

Adobe Photoshop

QUESTION: Number of Records are number _____ in a MS Access Table.

Columns

Fields

Rows

Sets

QUESTION: Which of the following SQL key word is used to add new records in database table?

SELECT

ADD

INSERT

INCLUDE

QUESTION:In iterative structures, initial states are established in _____ component.

1st

2nd

3rd

4th

QUESTION:In pseudo code for finding maximum number, second number in the list is assigned to _____

Min variable

Find variable

Max variable

Current variable

QUESTION:Knowledge which only you possess and you have only revealed it under a confidentiality agreement:

Personal data

Copyright data

Private information

Confidential information

QUESTION:is used to specify the range of cells on which you want to apply the formula in excel?

+

#

=

|

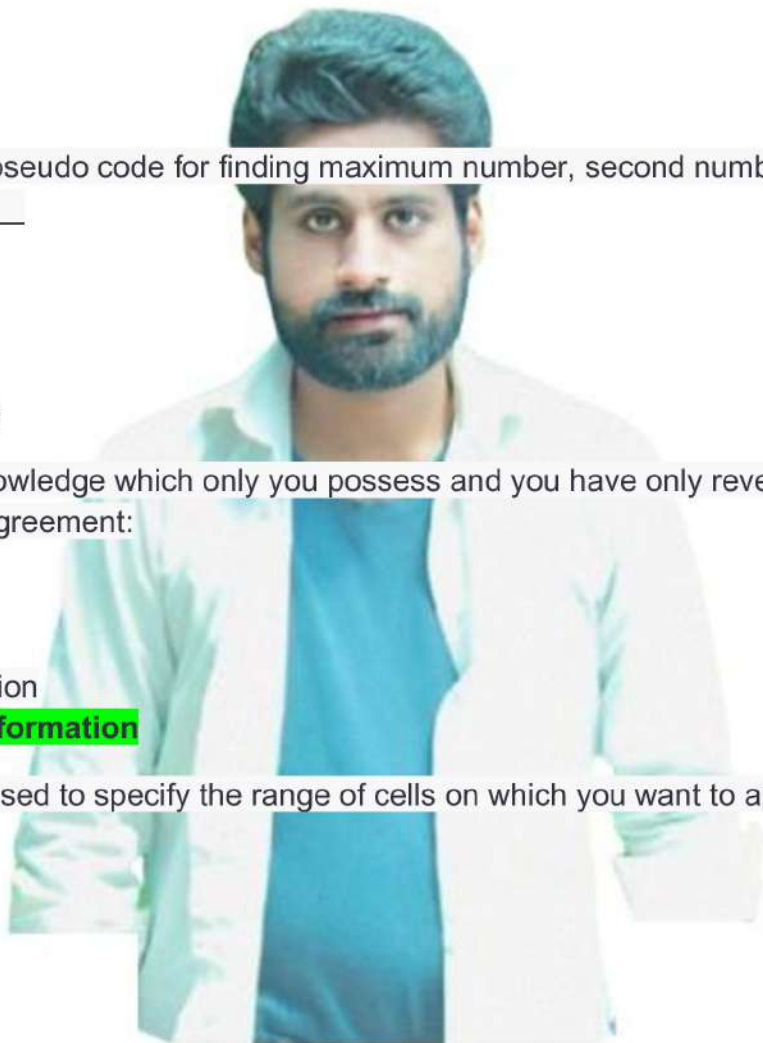
QUESTION:What is the factorial of n when n=5

90

100

110

120



QUESTION:A public key is used to_____messages.

Send

Receive

Encrypt

Decrypt

QUESTION:If a cell B2 has value 68, what will this IF function give you as a result?

-IF (B2>60, "Pass", "Fail")

Fail.

Pass.

60.

None of the given

QUESTION:If a cell B2 has value 68, what will this IF function give you as a result?

-IF (B2>60, "Pass", "Fail")

Fail.

Pass.

60.

None of the given

QUESTION:A_____is a representation of an algorithm designed for computer application.

Program.

Processor.

Sequence.

Process

QUESTION:The special eye-catching effects between each slide of MS PowerPoint is called:

Slide View

Slide Variation

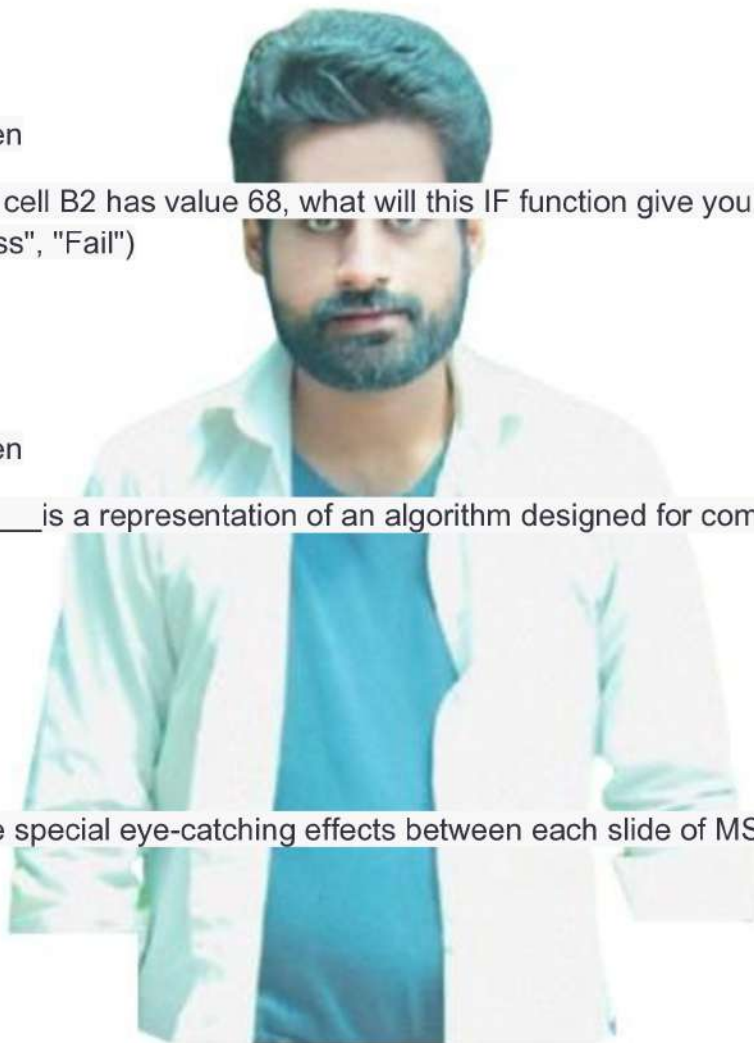
Slide Show

Slide Transitions

QUESTION:Title page of the document is called:

Cover page

Start page



Header

Footer

QUESTION: Which of the following is not a valid excel function?

MEDIAN

AVERAGE

MAX

ORDER

Which of the following option is not a characteristic of a good software design?

Correctness

Understandability

Efficiency

Complex design

QUESTION: The most preferred technique used for password protection is

Decryption

Encryption

Extinction

Anti Virus

QUESTION: Stack is a data structure that works on the principle of

first-in, first-out

first-in, middle-out

middle-in, first-out

last-in, first-out

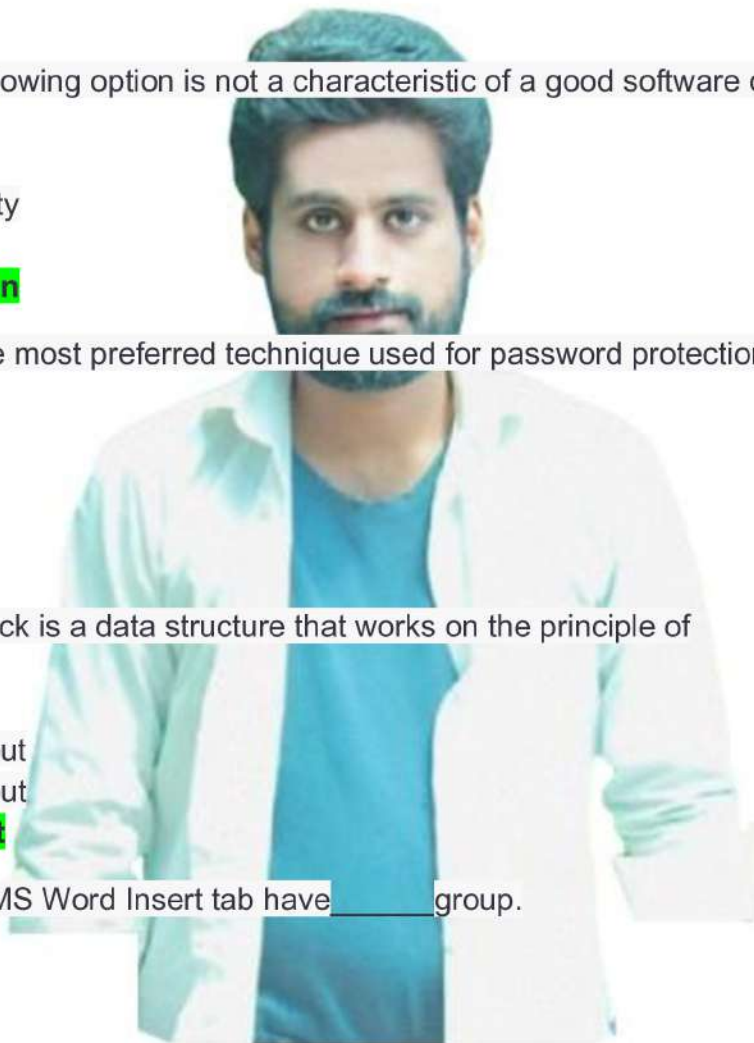
QUESTION: In MS Word Insert tab have _____ group.

Clipboard

Editing

Illustrations

Styles



QUESTION: Which of the following options is the first phase of software development life cycle (SDLC)?

Testing

Requirements analysis

Design

Implementation

QUESTION: In which phase of software development life cycle (SDLC), interaction of the system with outside world is defined?

Testing

Requirements analysis

Design

Implementation

QUESTION: The point at which all the steps in a database transaction have been recorded in a log is called

snapshot

schema

commit point

roll back

QUESTION: The SELECT operation on a database relation extracts _____ from that relation.

attributes

rows

columns

table

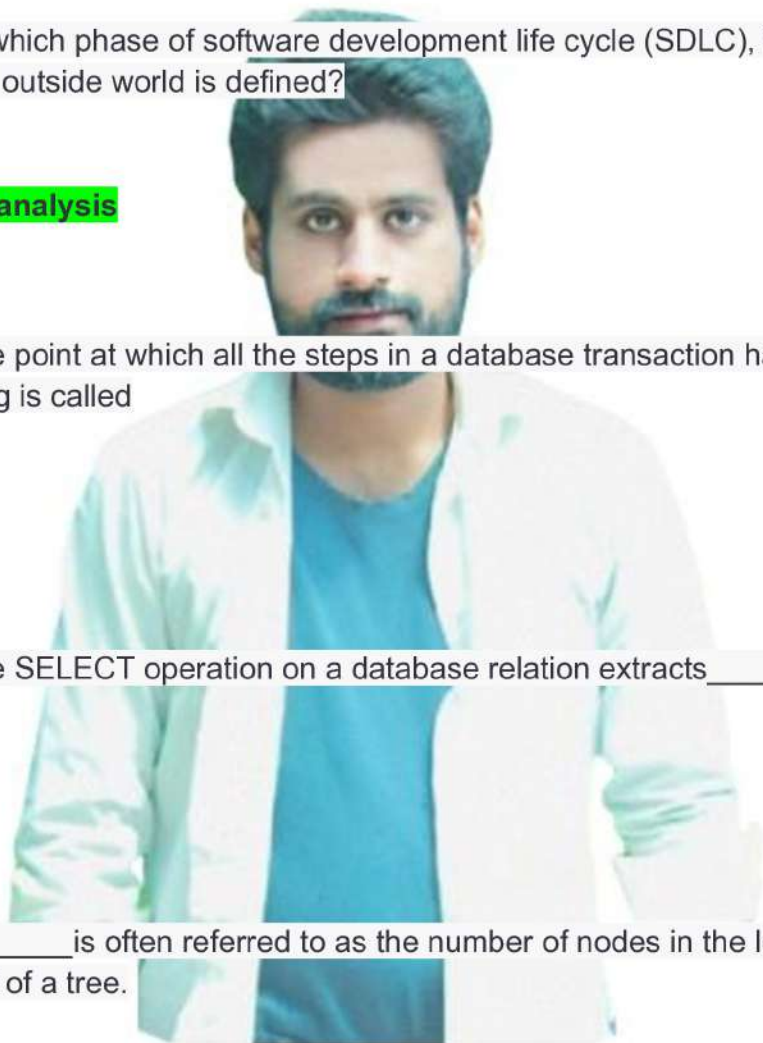
QUESTION: _____ is often referred to as the number of nodes in the longest path from root to leaf of a tree.

Breadth

Level

Depth

Route



QUESTION:Which of the following is the valid assignment statement in C++ and C# ?

x:10;
x:-10;
x=10;
x=:10;

QUESTION:Act that ensures patient confidentiality for all health-care related data is

COPPA
HIPPA
ECPA
Video Privacy Protection

QUESTION:What does COTS stand for? Select the correct option.

Commercial off-the-shelf
Computer off-the-shelf
Component off-the-shelf
Compartment off-the-shelf

QUESTION:Which of the following is not an arithmetic operator in C language?

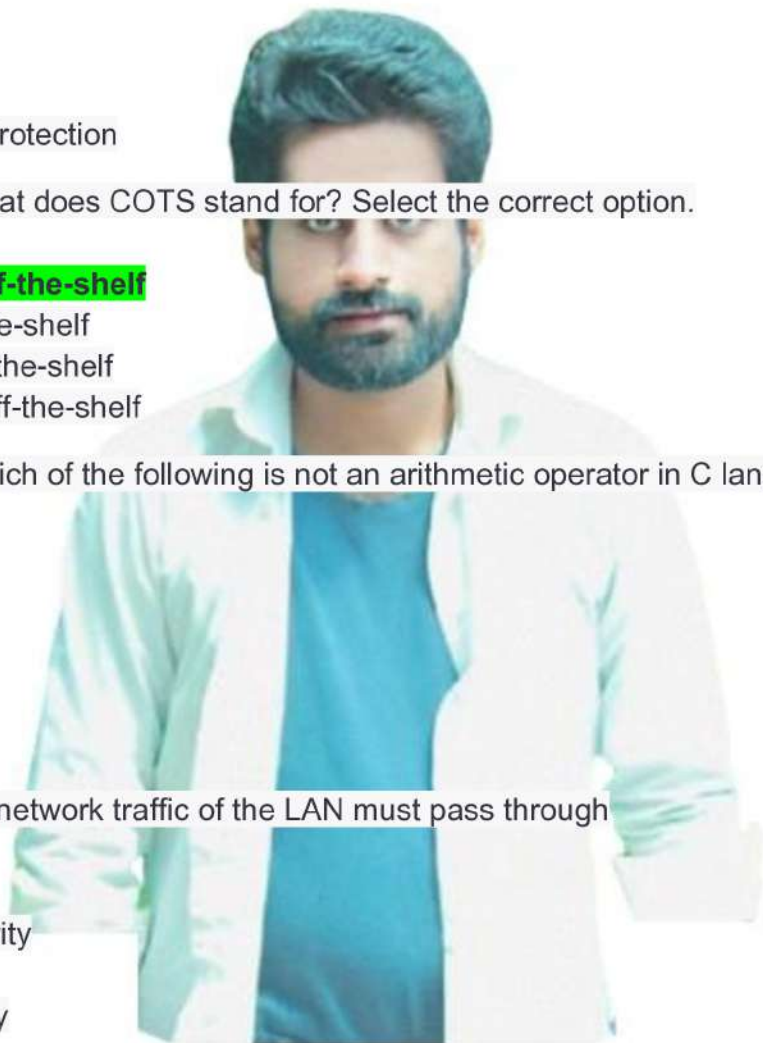
if
%
+
=

QUESTION:All network traffic of the LAN must pass through

Firewall
Computer security
Network wall
Network security

QUESTION:To improve child protection in case of electronic theft, one method that got attention on social media is the idea of a cell phone contract between_

child/cell company
parent/social media



social media/child

parent/child

QUESTION:In MS word, cut option is a part of home ribbon group called

Paragraph

Font

Clipboard

Insert

QUESTION:In content filtering, which of the following is not included in most common items to filter?

Answer

Emails

Executable files

Websites

Cyberbullying

QUESTION:A collection of formatting options that you can apply to text in MS Word is called

Styles

Formats

Fonts

Menus

QUESTION:The___maintains the key characteristics of the sequential file: Records are organized in sequence based on a key field.

Pile

Sequential file

Indexed sequential file

Indexed file

QUESTION:Relational operators cannot be used with___data type.

float

structure

long

strings

QUESTION:Which of the following is used to show hierarchy in a pseudo code?

Indentation.

Semicolon.
Parentheses.
Braces

QUESTION:While writing Pseudo code of an algorithm, there are_____rules to follow.

Standard
No standard
Strict
Pre-defined

SUBJECTIVE

QUESTION:What will be the output of the following code?

```
int main()
{
int i=1;
while(i<=6)
{
cout<<"Value of variable i is: "<<i<<"\n";
i=i+1;
}
return 0;
}
```

ANSWER

```
Value of variable i is: 1
Value of variable i is: 2
Value of variable i is: 3
Value of variable i is: 4
Value of variable i is: 5
Value of variable i is: 6
```

QUESTION:Mr. Ali wants to be sure that he is building the software right. Suggest him a technique which can be used for this purpose.

ANSWER: Mr. Ali can use the technique of **Unit Testing** to ensure that he is building the software right. Unit testing involves testing individual units or components of the software to

validate that each unit performs as expected. By writing automated tests for each unit and running them frequently during development, Mr. Ali can quickly identify and fix any defects, ensuring that the software is being built correctly. Additionally, incorporating continuous integration practices can further enhance the effectiveness of unit testing by automatically running tests whenever changes are made to the codebase.

QUESTION:Table is an important feature of MS-word. Which ribbon or tab allows us to add table?

ANSWER: The ribbon or tab that allows us to add a table in MS Word is the **Insert** tab. Within the Insert tab, there is a group specifically dedicated to tables, where you can find options to insert different types of tables into the document.

QUESTION: Name the method that is used to recognize optical character while understanding images in image processing.

ANSWER: The method used to recognize optical characters while understanding images in image processing is called **Optical Character Recognition (OCR)**. OCR is a technology that converts different types of documents, such as scanned paper documents, PDF files, or images captured by a digital camera, into editable and searchable data. It is widely used in various applications, including document scanning, digital archiving, and text extraction from images.

QUESTIONProvide outputs for the following Excel formulas, where A1=2, B1=9, C1=15

$$1-=(A1^{(B1-C1/3)}) * 10$$

$$2-=(A1 * (B1+C1/5)) + 10$$

ANSWER:

$$1- = (A1^{(B1-C1/3)}) * 10 = (2^{(9-15/3)}) * 10 = (2^{(9-5)}) * 10 = (2^4) * 10 = (16) * 10 = 160$$

$$2- = (A1 * (B1+C1/5)) + 10 = (2 * (9+15/5)) + 10 = (2 * (9+3)) + 10 = (2 * (12)) + 10 = (24) + 10 = 34$$

So, the outputs are: 1- 160 2- 34

QUESTION:Write down the algorithm to convert km into meters.

$$1\text{Km}=1000\text{m}$$

ANSWER:

Here is the algorithm to convert kilometers into meters:

Algorithm: ConvertKmToMeters

Input:

- kilometers (km)

Output:

- meters (m)

Steps:

1. Read the value of kilometers (km).
2. Multiply the value of kilometers by 1000 (since 1 kilometer = 1000 meters).
3. Assign the result to the variable meters (m).
4. Display the value of meters (m).

Example: kilometers = 5 (for example) meters = kilometers * 1000 = 5 * 1000 = 5000 Display meters

This algorithm will take the input value of kilometers and convert it into meters by multiplying it by 1000, and then output the result in meters.

QUESTION:What will be the output of the following code?

```
int main()
{
int arr[]=(211,87,155,99,-122);
int i=4; while(i>=0)
```

ANSWER:

he provided code snippet seems incomplete and lacks necessary statements. Additionally, the initialization of the array `arr[]` is incorrect. If you intended to initialize the array with the given values, you should use curly braces `{ }` instead of parentheses `()`.

Here's the corrected code snippet with the array initialization and missing statements:

```
#include <iostream>
using namespace std;

int main() {
    int arr[] = {211, 87, 155, 99, -122};
```

```
int i = 4;
while (i >= 0) {
    cout << arr[i] << " ";
    i--;
}
return 0
```

Now, if you run this code, it will output the elements of the array `arr[]` in reverse order:

-122 99 155 87 211

This is because the loop iterates from index 4 to 0, printing the elements of the array in reverse order.

QUESTION:What are BLOCK and INLINE elements in HTML? Give one example of each.

ANSWER:

- Block-level elements typically start on a new line and occupy the full width available to them.
- They create a block of content, and any content that follows them is displayed on a new line.

Examples of block-level elements include `<div>`, `<p>`, `<h1>`–`<h6>`, ``, ``, ``, `<table>`, `<form>`, etc.

```
<div>
  This is a block-level element.
  It starts on a new line and occupies the full width
  available.
</div>
```

Inline elements:

- Inline elements do not start on a new line and only occupy the space necessary to display their content.
- They allow other elements to be displayed alongside them on the same line.
- Examples of inline elements include ``, `<a>`, ``, ``, ``, `<input>`, `<button>`, `<label>`, etc.

```
<span>This is an inline element.</span> <strong>This is another inline element.</strong>
```

QUESTION: Sort the following array by using insertion sort algorithm. You are required to show all the steps involved in this sorting. {33, 17, 11, 6, 8}

ANSWER:

here are the steps to perform insertion sort on the given array {33, 17, 11, 6, 8}:

Initial array: {33, 17, 11, 6, 8}

Step 1: Start with the second element (index 1) and compare it with the elements to its left.

- Swap elements if necessary to place the second element in its correct position in the sorted sequence.
- {17, 33, 11, 6, 8}

Step 2: Consider the third element (index 2) and compare it with the elements to its left.

- Swap elements if necessary to place the third element in its correct position in the sorted sequence.
- {11, 17, 33, 6, 8}

Step 3: Consider the fourth element (index 3) and compare it with the elements to its left.

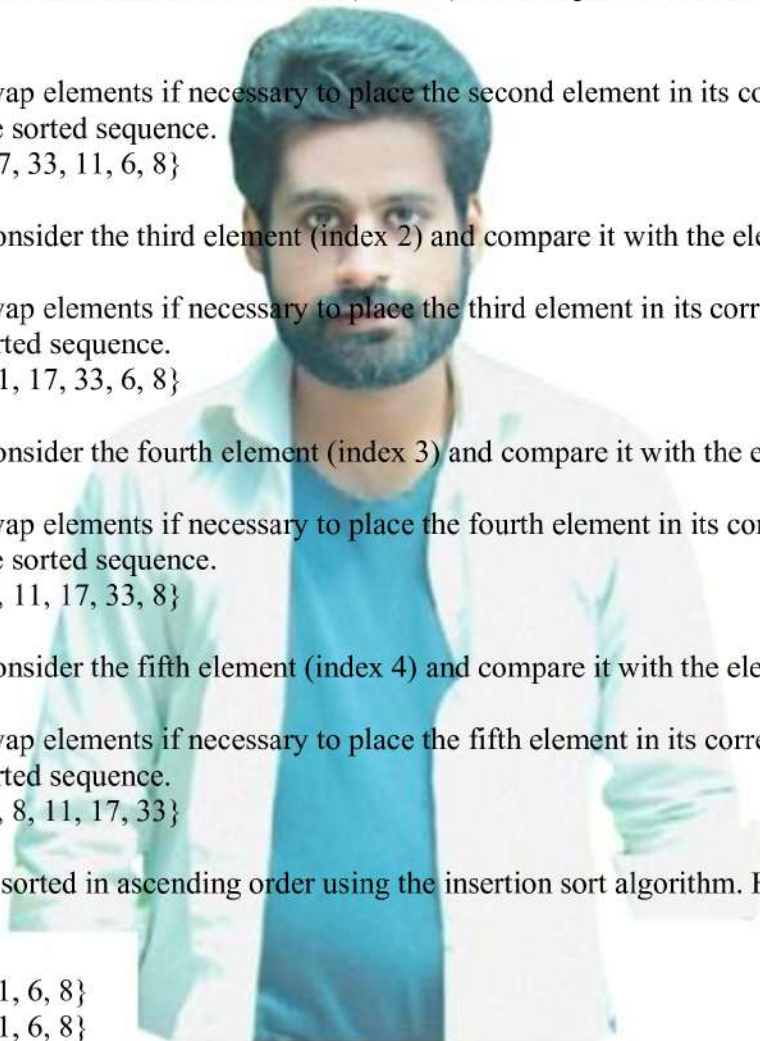
- Swap elements if necessary to place the fourth element in its correct position in the sorted sequence.
- {6, 11, 17, 33, 8}

Step 4: Consider the fifth element (index 4) and compare it with the elements to its left.

- Swap elements if necessary to place the fifth element in its correct position in the sorted sequence.
- {6, 8, 11, 17, 33}

Now, the array is sorted in ascending order using the insertion sort algorithm. Here are the steps involved:

1. {33, 17, 11, 6, 8}
2. {17, 33, 11, 6, 8}
3. {11, 17, 33, 6, 8}
4. {6, 11, 17, 33, 8}
5. {6, 8, 11, 17, 33}



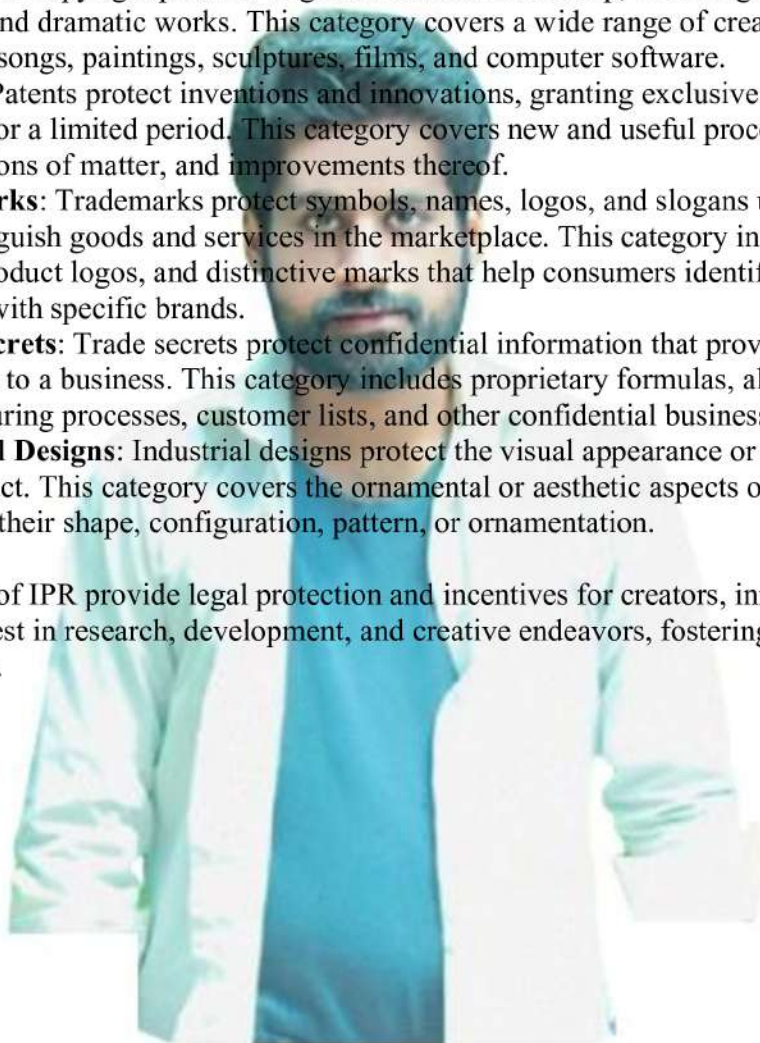
QUESTION: You are required to mention any five categories in which IPR can be subdivided.

ANSWER:

Intellectual Property Rights (IPR) can be subdivided into various categories, each offering legal protection for different types of creations and innovations. Here are five common categories of IPR:

1. **Copyright:** Copyright protects original works of authorship, including literary, artistic, musical, and dramatic works. This category covers a wide range of creative works such as books, songs, paintings, sculptures, films, and computer software.
2. **Patents:** Patents protect inventions and innovations, granting exclusive rights to the inventor for a limited period. This category covers new and useful processes, machines, compositions of matter, and improvements thereof.
3. **Trademarks:** Trademarks protect symbols, names, logos, and slogans used to identify and distinguish goods and services in the marketplace. This category includes brand names, product logos, and distinctive marks that help consumers identify and associate products with specific brands.
4. **Trade Secrets:** Trade secrets protect confidential information that provides a competitive advantage to a business. This category includes proprietary formulas, algorithms, manufacturing processes, customer lists, and other confidential business information.
5. **Industrial Designs:** Industrial designs protect the visual appearance or aesthetic features of a product. This category covers the ornamental or aesthetic aspects of products, including their shape, configuration, pattern, or ornamentation.

These categories of IPR provide legal protection and incentives for creators, innovators, and businesses to invest in research, development, and creative endeavors, fostering innovation and economic growth.



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