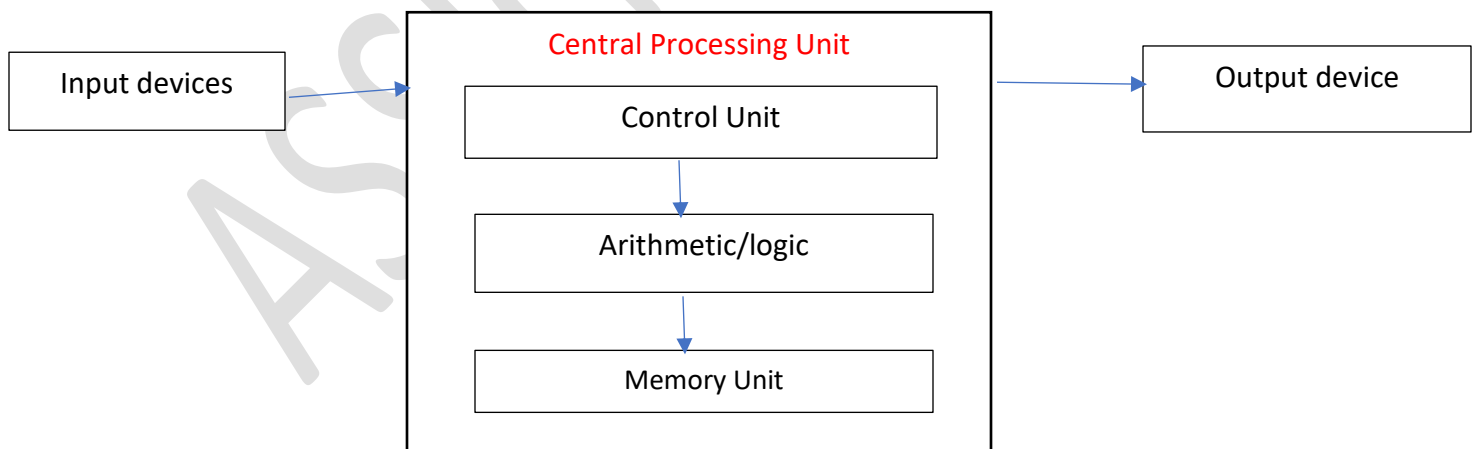


Q1. What are the four fundamental part of computer ? Explain it with the help of diagram.

Ans : The four fundamental part of computer are :

1. Input device
2. Processor (CPU)
3. Output device
4. Backing storage

1. **Input Device** : An input device is any hardware device that sends data to a computer, allowing you to interact it and control it.
2. **Output Device** : An output device allowed data to transmitted in a human friendly form
3. **Processor** : It is the portion of the computer that retrieves and execute instruction.
4. **Memory Unit** : It is a component of a computer system . It is used to store data, instruction and information .



Q2. Discuss about the classification of computers based on size and capacity?

Ans: Based on size and capacity , computers are classified as follows :

1. **Super Computers**
2. **Mainframe Computers**
3. **Mini Computers**
4. **Micro Computer**

- **1. Super Computer** : A super computer is the fastest type of computer . Supercomputer are very expensive and are employed for specialized applications that require large amounts of mathematical calculations  
**Eg:** JAGUAR,ROADRUNNER etc.
- **2. Mainframe Computer** : It is a very large often filling an entire room and can process thousands of millions of instructions per seconds . In a mainframe environment, users connect to the mainframe through the many terminals wired to the mainframe . They are capable of supporting humdred of thousands of user simultaneously. **Eg:** IBM mainframe, Z13,IBM system .
- **3. Mini Computer** : They are much smaller than mainframes. These computer are also less expensive . Sometime reffered to Midrange Server or Midrange Computer . They are typically larger, more powerful and more expensive than desktop computers. Users connect to the server through a network by using desktop computers . **Eg:** Apple ipod , CDC 160A.
- **Micro Computers** : They are the most frequently used type of computers . It is also known as personal computer (PC) . A microcomputer is a small computer system designed to be used by one person at a time . **Eg:** Dekstop Computers, Laptops.

Q3. What is the meaning of computer generation? How many computer generation are defined? What technologies were/are used?

Ans : Generation is computer technology is a change in computer technology that is used: There are four generation in a computer:

1. In the first computer system, vacuum tubes are used.
2. Transistors are used in 2<sup>nd</sup> generation.
3. Integrated Circuit Technology were used in 3<sup>rd</sup> generation.
4. Microprocessors are used in the 4<sup>th</sup> generation.

Q4. Difference between Volatile and Non – Volatile memories?

Ans: Volatile Memories:

1. It is a computer storage the only mountains its data while device is powered.
2. Example: RAM
3. Primary memory has limit storage capacity and its volatile.

Non – Volatile

1. It is a type of computer memory that has the capacity to hold saved data if the power is turned off
2. Example: ROM, Hard Disk etc.
3. Secondary memory provides permanent storage of data and in bulk capacity.

Q5. Distinguish among system software , application software and Open – Source software on the basis of their features .




Ans: 1) System Software: It is a type of software designed to that is designed to run a computer hardware and application software like operating system, editors and drivers etc.

2) Application Software: It is a software created for a specific purpose, used by end users. It can be called application or simply an app. Example: Word Processor, Accounting application, Web browser an email client etc.

3) Open – Source Software: It is a type of a computer software in which source code is released under a license in which the copyright holder grants users right to study, change and distribute the software to anyone and for any purpose. The Linux Operating System is the best example of Open – Source Software.

Q6. A) Create a file in MS – Word to insert a paragraph about yourself and save it with file name “yourself”. Describe all step involved in it.

B) Write steps regarding followings

-  To change the font style.
-  To change the font size.
-  To change the font color.
-  To highlight (in yellow) the line that reads need to get “IMS’s address”

Ans: A) Created a file in MS – Word to insert a paragraph about yourself and save it with file name “yourself”. Describe all steps involved in it. B) Write steps regarding following \*To change the font style\*To change the font size\*To change the font color\*To highlight (in yellow) the line that reads need to get “IMS’s address”

Ans: a) The steps involve are:

- I. We click the Microsoft office button.
- II. We select new. The new document dialog box appears.
- III. We select blank document under the blank page and recent select. It will be highlight by Default.
- IV. We click created. A new blank document appears in the word window.
- V. To save the document we click again the Microsoft office button.
- VI. We click Ctrl + S. The save as dialog box appears.
- VII. We select the location whereas went to save the document using the drop – down menu.
- VIII. We enter the file name “yourself” for the document.
- IX. We click the save button

b) Steps to change the font size:

1. We select the text or sentence we want to modify.
2. We Left – Click the drop – down arrow next to the font color box on the Home – Tab. The font color menu appears.
3. We move the cursor over the various font colors. A line preview of the color will appear in the document.
4. We left click the font color we want to use. The font will change in the document.

C) Steps to change the font color:

- 1) We select text or sentence we want to modify.
- 2) We left – click the drop – down arrow next to the font color box on the home tab. The font color menu appears.
- 3) We move the cursor over the various font colors. A line preview of the color will appear in the document.
- 4) We left click the font color we want to use. The font will change in the document.

D) To highlight (in yellow) the line that reads “need to get IMS’s address”

- i. We select the line that reads need to get IMS’s address.
- ii. We click the highlight command and select yellow color in the font group in the Home Tab.

Q7. Create a file in MS-Word for the following document and save it with file name “ms-word”. Describe all steps involved in it.

MS WORD

**MS WORD** is a widely used commercial word processor developed by Microsoft.

*MS word* is application software, which is capable of

- **Creating,**
- Editing,
- **Saving,** and

- Printing any type of document
- Printing any type of document

Ans: MS Word

MS Word is a wider used commercial word processor developed by Microsoft.

MS word is application software, which is capable of

- Creating
- Editing
- Saving
- Printing any type of document

The steps involved are:

1. We click the Microsoft office button.
2. We select new. The new document dialog box appears.
3. We select blank document under the blank and recent section. It will be highlighted by default.
4. We click create. A new blank document appears in the word window.
5. We create the given document from the question.
6. We select the text "MS word" to change the font size by clicking on the font size box on the home tab.
7. We select the text "MS word" to change the font color into red by clicking on the font color menu.
8. We select the text word processor and underline it by clicking the underline command in the font group the home tab.
9. We select the text "MS word" to change the font style into italic by clicking italic command.
10. We select the text we want to format as a list and click on the bullets command on the home tab.

rence in Excel. It is simply the combination of column name and row number without any dollar \$ sign. When you copy the formula from one cell to another the relative cell address changes depending on the relative position of column and row. C1, D2, E4, etc. are examples of relative cell references are used when we want to perform a similar operation on multiple cells the formula must change according to the relative address of column and row.

This refers to a relative point of reference, is constantly changing and dollar sign (\$) is absent in the formula (i.e., when each unit price and quantity are reference variables, there's no constant in the calculation.

Cell Address: 11. We change the font color of the text "creating" and "saving" into blue and red resp. By clicking on the font color command, again we select the text "and" and click on strikethrough command.

12. We select the text "printing any type of document" and change the font style into bold by clicking on the font style command.

13. We save the file name as "ms word" by clicking the Microsoft Office button and select save as

14. We select the location where we want to save the document using drop-down menu

15. We click the save button.

Q8. Create a file in MS-word for the following document and save it with file name 'equation'. Describe all steps involved in it.

Equations

$$X_2 + Y^5 = 30$$

$$Z^3 + Q^4 = 50$$

$$A_2 + B^8 = X_2 + Y^8$$

Ans: Equations

$$X_2 + Y_5 = 30$$

$$Z^3 + Q^4 = 50$$

$$A_2+B^8=X_2+Y^8$$

The steps are:

1. We create the given documents in MS-word
2. We select the text where we want to format and click on the subscript and subscript command on the home tab
3. We save the file name as “equation” by clicking the Microsoft office button and select save as
4. We select location where we want to save the document using the drop down menu
5. We click the save button.

Q9. Create a file in MS-word that convert existing highlight text to able as shown below and save it as file name ‘text\_to\_table’. Describe all steps involved in it.

Select the text you want to convert  
 Select the **Insert** Tab.  
 Click on Table command. A dialog box appears.  
 Click on **Convert Text to Table**, a new dialog box appears here set number of columns.  
 Click on OK Finally Select text convert in a table.

Select the text you want to convert.	Select the Insert tab.
Click on <b>Table</b> command. A dialog box appears.	Click on <b>Convert Text to Table</b> , a new dialog box appears
here set number of columns.	Click on OK Finally Select text convert in a table

Ans: To convert existing text to table:

1. We select the existing highlight text that we want to convert.
2. We select insert tab
3. We click the table command
4. We select convert text to table from the menu. A dialog box appears



5. We click ok. Then the text appears in a table.

Q10. Create a file in MS-word to insert a table in the document. Describe all steps involved in it.

Ans:


The steps are:

1. We place our insertion point in the document where we want our table to appear

2. We select the insert tab

3. We click the table command

4. We drag our mouse over the diagram squares to select the number of columns and rows in the table.

5. Left click our mouse and the table appears in the document.

6. We enter the text into the table.

Q11. Create a following worksheet in MS-excel and save it with name 'book1'.

Roll No	Name	Marks
1	n1	60
2	n2	70
3	n3	80
4	n4	90
5	n5	40
6	n6	40

7	n7	50
8	n8	77
9	n9	88
10	n10	55

Ans:

sum	650
average	65
Maximum	90
Minimum	40

Q12. Calculate the following things of a range (C2:C11) of data in the worksheet create in question no 10.

- The sum of the marks using AutoSum in a range of cells (C2:C11)
- Average of the marks in a range of cells (C2:C11)
- Highest marks in a range of cells (C2:C11)
- Minimum marks in a range of cells (C2:C11)

1	n1	60
2	n2	70
3	n3	80
4	n4	90

5	n5	40
6	n6	40
7	n7	50
8	n8	77
9	n9	88
10	n10	55

Ans:

sum	650
average	65
Maximum	90
Minimum	40

Q13. a) Describe various steps involved in the following

- To modify column width of a worksheet
- To modify the row height of a worksheet
- To delete rows and columns of a worksheet

Q13. b) Describe following terms in the worksheet

- Absolute reference and relative reference in formula
- Cell address

Ans: a) to modify column width of a worksheet:

- I. Select a column or a range of column.
- II. Select a Home tab and in the Cells group, select Format.
- III. Click on Column width and type the width for column.
- IV. Select OK.

To modify the row height of a worksheet:

- I. Select a row or a range of rows.

- II. Select a Home tab and in the Cells group, select format.
- III. Click on Row height And type the height for now.
- IV. Select OK.

To delete rows and columns of a worksheet.

- I. Select the cell you want to delete within the column or row.
- II. Select home tab. And in cells group click on Delete Sheet Column or Row.

OR

- I. Select the desire row or column.

b):

Absolute Reference:

An absolute reference in excel means there is a fix point of reference applied to a cell or a formula. This is so the return value will always stay the same no matter where the cell or formula moves to – within the same sheet or across different sheet.

This refers to a fix point of reference is a constant, and involves the use of dollar sign \$ in the formula (i.e., everyone is to receive the same bonus payout, so the amount \$1500 is constant in this situation).

Absolute reference:

It is the default cell refe

A cell address is a combination of column letter and a row number that identifies a cell on a worksheet.

For example, A1 refers to the cell at the intersection of column A and row 1; B2 refers to the second cell in column B, and so on.

When used in formula, cell references help Excel find the value the formula should calculate. For instance,

To pull the value of A1 to another cell, you use this simple formula:

=A1

To add up the value in cells A1 and A2, you use this one:

=A1+A2

Q14. A) What tools are available to customize our Power Point presentation?

B) Write the steps for the following action for creation of power point presentation

- Open a Blank presentation
- Save the presentation as Lab1.pptx
- Add a Title to the first slide: the name of your college
- Type your first name and last name in the Subtitle section
- Add a New Slide which has a title and Content

Ans:

a) Tools available to customize our Power Point presentation are:

a) Perspector

b) Pivot viewer

c) Autodesk 3DS Max

d) VisualBee Power Point Add –in

e) SmartArt

f) Animation and Transition

g) Wordle

h) CA coo

i) Oomfo

j) Clip champ

b) Ans:

To open blank presentation:

I. Open Power point presentation using 'Run' command ( window key + R).

II. Select the 'Blank Presentation'. It is opened.

Save the presentation on Lab1. pptx:

I. Select the 'File' on tab bar.

II. Click on 'Save As' option.

III. Click on document/Desktop as your choice.

- Add a Title to the first Slide: the name of your college.

I. Left click on the 'Click to Add Title' section on the first slide.

II. Type the name of your college.

- Type your first name and last name in the subtitle section:

I. Left click on the 'Click to Add Subtitle' section.

II. Type your first name and last name.

- Add a new slide which has a title and content:

I. Select the Home tab.

II. Click on the dropdown button of the 'New Slide' on toolbar.

III. Select the slide having 'Title and content'. It is added.

Q15. Write steps for creation of a set of Power Point slide that demonstrates your skill to use the tools of PowerPoint. It should include the following things

- Title slide & bullet list
- Insert Excel sheet
- Clip art and Text

Ans:

- Title slide and bullet list:
  1. Open PowerPoint Presentation.
  2. Select the Home tab.
  3. Click at the dropdown button 'New Slide' at toolbar.
  4. Select the slide having Title slide and bullet list.

- Insert Excel sheet:
  1. Open the slide where you want to insert the Excel sheet.
  2. Select the 'Insert tab'. And click on 'Object' on tool bar.
  3. Select the 'Microsoft Excel Worksheet' object type.
  4. Click the 'OK' button.
- Clip Art and text:
  1. Select the Insert tab.
  2. Select the 'Pictures' or 'Online Pictures' on tool bar.
  3. Choose the appropriate art for the topic.
  4. Click on the 'Insert' button.
- Slide show effects:
  1. Select 'Design Tab' for Themes, Variants and Slide size.
  2. Select 'Transition tab' for Cut, Fade, Push, Wipe, split, Reveal, Shape, Flash, etc. for slide effect.

Q16. What is the Difference between Machine languages and High Level Languages?

Ans:

Machine Languages	High Level
<p>Languages</p> <ol style="list-style-type: none"> <li>1. A computer programming languages consisting of binary instruction which a computer can respond to directly</li> <li>2. It requires no translator to translate the code. It is directly understood by the computer</li> <li>3. This languages makes fast and efficient use of the computer</li> </ol>	<ol style="list-style-type: none"> <li>1. it is programming languages that enables development of a program in a much more user friendly programming context</li> <li>2. It takes additional translation time to translate the source code to machine code</li> <li>3. They are programmer friendly</li> </ol>

Q17. Discuss about data type of C programming Languages?

Ans: The different data type in c programming Languages are:

Char: the most basic data type in C. It store a single character and requires a single bite of memory in almost all compliers.

Int: as the name suggest, and int variable is used to store an integer.

Float: it is used to store decimal numbers.

Double: it is used to store decimal numbers (number with floating point value but its range of value is high in comparison to float).

Q18. Find the output of the following expressions?

a)  $X=20/5*2+30-5$     b)  $Y=30 - (40/10+6) + 10$     c)  $Z=40*2/10-2+10$

Ans: a)  $x=33$

b)  $Y=30$

c)  $Z=16$

Q19. Describe the syntax of the following statements?

a) If – else statement    b) for loop    c) white loop    d) do- while loop

Ans: a) If – else statement:

If statement can be followed by an optional else block of statements, which executes when the Bootcan expression is false

Syntax

If (expression)



```
{  
True block of statements;  
}
```

Else

```
{  
Else block of statement;  
}
```

b) For loop is similar to while loop. Basic syntax of for loop is as follows:

For (expression 1; expression 2; expression3)

```
{  
Block of statement  
}
```

In the above syntax

Expression 1- initializes variables.

Expression 2- conditional expression as long as this condition is true, loop will keep executing.

Expression 3- it is modifier which increase or decrease the value of the variable.

c) While loop

Basic syntax of while loop is as follows

While (condition)

Single statements

OR while (condition)

```
{  
Block of statements  
}
```

d) Do- while loop.

Do while loop is just like a while loop except that the test condition is checked at the end of the loop rather than the start. This has the effect that the body of the loop are always executed at least once

Basic syntax of do- while loop is as follows

Do

{

Single statement

Or

Block of statements

} while (condition)

Q20. Find the output of the following program segments

a)	b)	c)
<pre>#include &lt;stdio.h&gt; Int main() {     Int i;     For (i=1;i&lt;2;i++)     {         Printf("IMS         Ghaziabad\n");     } }</pre>	<pre>#include&lt;stdio.h&gt; Int main() {     Int i=1;     While (1&lt;=2)     {         Printf("IMS         Ghaziabad\n");     } }</pre>	<pre>#include&lt;stdio.h&gt; Void main() {     Int a=10, b=100;     If(a&gt;b)         Printf("Largest number         is %d\n" ,a);     Else         Printf("Largest         number is %d\n" ,b); }</pre>

Ans: a) 1

b) 2

c) b=100

ASSIGNMENT 1