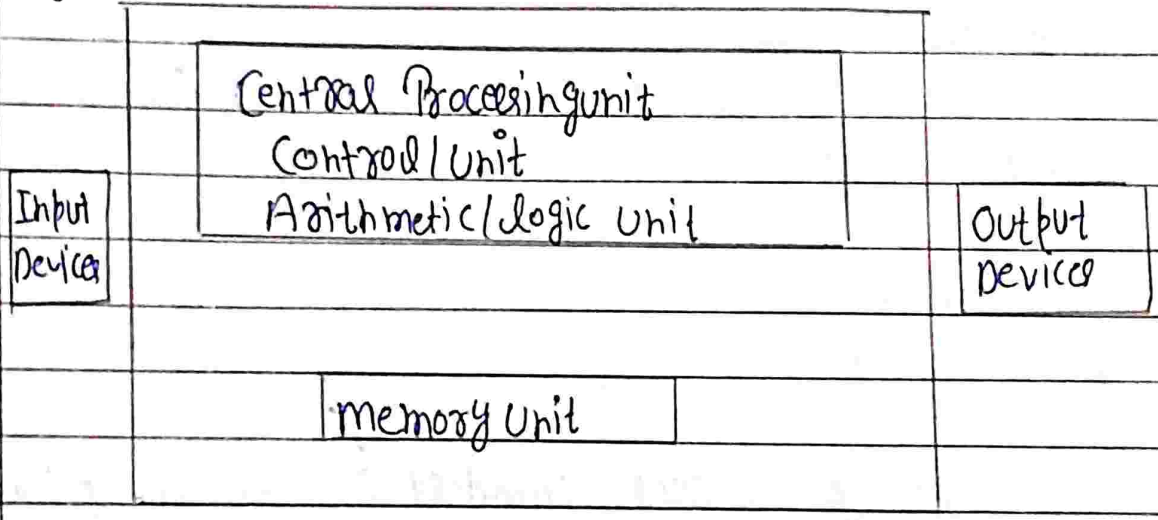
Assignment-01

Q1 What are the four fundamental parts of computer? Explain in the help of digram

Ans A computer is a fast system that is organized to accept store and process data output results under the direction of a stored a programe of Intraction. The description explain how a computer system is organized Basic organization of computer system includes input processing unit memory unit and output device.

Organization of a computer



Input Device → Computer system use many devices for input purpose. Input devices include the mouse, input pen, touch screen and mircophone Regardless of the type of device, all are components Interetation and Communication between people & computer system.

Central Processing unit (C.P.U) → It is the brain of the computer, with out this out

Computer unable to process.

Output device → Output device is used to show the results of the instructions example. monitor, printer, Headphone etc.

memory unit → A memory unit is the collection of storage units or devices together The memory unit store the binary information in the bits.

Q2 Discuss about the classification of computer based on size an capcity

Ans Based on size and capacity, computer are classified as follows
Super computer
mainframe computer
mini computer
micro computer

Super computer → Super computers are the most powerful and Physically the largest by size These are systems designed to process huge amount of data. The fastest supercomputer can perform over one trillion calculation in a second. supercomputer have thousand of processors. Because of their extraodinary speed, accuracy and Processing power, supercomputer are well suited for solving highly complex problem of huge amounts of calculation.
Example → JAGUAR, ROADRUNNER etc.

Main frame Computer -> Main frame computer are very large often filling and entire room and can Process thousand of million of instruction per second In a mainframe environment, users connect to the mainframe through the many terminals wired to the mainframe. are capable of supporting hundred to thousand of users simultaneously. some of the functions performed by a mainframe incuded flight scheduling, reservation and connect to the server through network by using desktop computers.
Example -> IBM mainframes Z13

Micro Computer -> Micro computer are the most frequently used type of computer. It is also, know as Personal computer (PC). A microcomputer is a small computer system designed to be used by one person at a time.
Example -> Desktop Computers, laptops.

Mini Computer -> Mini computer are much smaller than micro-frames. These computer are also less expensive. Sometime refered to as a midrange server or midrange computer. They are typically larger, more powerful and more expensive than desktop computer. midrange computer are usually used by small and medium-sized business as their servers. User connect to the server through a network by using desktop computer
Example -> Apple iPad, CDC 160A

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

The evolution of digital computing is often divided into generation. Each generation is characterized by drametic improvment over the pervious generation in the internal organization of computer and Programing language.

Five Generation of Computer

1) First Generation
2) Second Generation
3) Third Generation
4) Fourth Generation
5) Fifth Generation.

First Generation → vacuum tubes (1940-1956) The First computer syst used vacuum tubes for circuitry and magnetic drums for memory. These computers were very expensive to operate. Computers of this generation consumed a lot o electricity. First generation computer relied on machin language, the lowest-level programming languge under by computer to perform operation. They could on solv problem at a time, It would take operators days o even weeks to set-up a new problem. Input was displayed based on Punched cards and paper tape, and output was displayed on printouts. First computer generated a lot of heat which

displayed on printouts. Heat often the cause of malfunctions UNIAC (Universo l Automatic Computer) Computers are example of first generation Computing. The UNIAC was the commercial Computer deliver to a business client the U.S Census Bureau in 1951.

Second Generation - Transistors (1956-1963) The world see Transistors replace vaccum tubes in the second generation Computer The Transistor was invented at Bell Labs in 1947 but did not see widesh use on computer Unit 13 the late 1950s but did not see widesh use in computer Until the late 1950 transistors was for superior to the vaccum tubes allowing Computer to become smaller, faster, Cheper, more energy-efficient and more reliable than their first generation predeceesors. Second-generation computer still relied on Punched cards for input and printouts for output second generation computer moved from binary machin language to symbolic or assebley language.

Third Generation computer → Integrated circuits (1964-1971) The development of the third generation of computer. Transistues were replaced by integrated circuits which drastically increased the speed an efficiency of computer. Instead of punched cards and printout, users Interacted with thired generation computer throught key board

and monitors. computer for the first time become accessible to mass audience because they were smaller and cheaper than their predecessors.

Fourth Generation computer - microprocessors (1971 - Present)

The microprocessor brought the fourth generation of computer as thousand of integrated circuits were build onto a single silicon chip. What in the First generation filled an entire room could now in the palm of the hand. In 1981, IBM introduced its first computer for the home user. In 1984, Apple introduced its macintosh. microprocessors also moved out to the desktop computer. Fourth generation computer also covered the development of Graphical user interface (GUIs) mouse and handheld devices.

Fifth Generation computer → Artificial Intelligence (Present and Beyond)

Fifth generation computing devices based on artificial intelligence, are still in development. There are some applications such as voice recognition that are being used today. The use of parallel processing and superconductors in helping to make artificial intelligence a reality. Quantum computation and nanotechnology will radically change the face of computer in years to come. The goal of fifth to natural language input and are capable of learning and self-organization.

Q.4 Differentiate between volatile non-volatile memories?

Ans

	Volatile	Non-volatile
1	Temporary storage	Permanent storage
2	Store data in RAM	Store data in ROM use to start up process at computer
3	Used in normal operation	Writing data in slower
4	Writing data faster	

Q5 Distinguish among system software application software and other types software and the basic of their feature

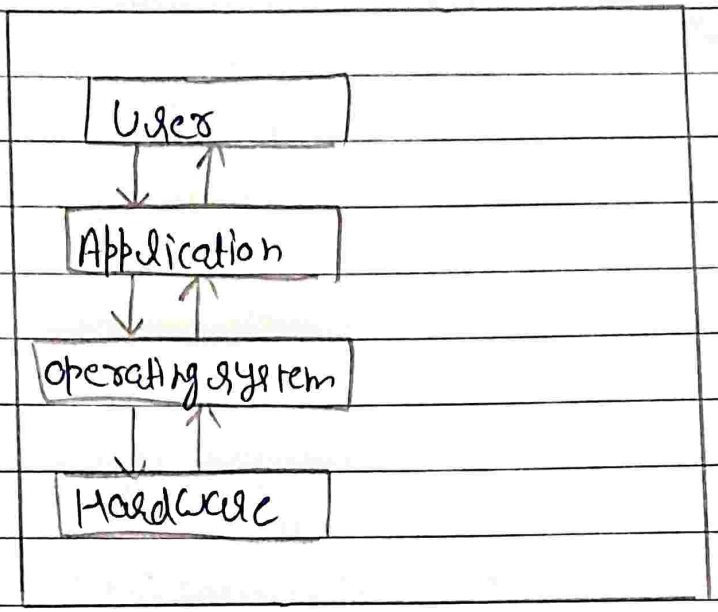
Ans Software is a set of instructions used to operate computer and execute specific tasks.

Type of software - The software is used extensively for different purpose in several domains

- It can be categorized into different types.

System software → It is a type of software that is designed to run a computer's hardware and application programs. Software like operating system compilers editors and devices etc. come under this category. A computer cannot function without the presence of system software. If we thing of the computer system as a layered model, the system software is the interface between the hardware and user application

Operating system (OS) -> Operating system act as manager of all the resources of computer i.e resources manager. It is system software the manges computer hardware and software recources and provides services. Thus operating system become an Interface between user and machine.



- Utility Programe -> These Programe analyze and maitain a computer. These programs are focused on how OS works to perform the task to enable the smoth functioning of computer. This programe may come along with os like window defender, Windows disk cleanup tool, Anitivirus, backup software, files manger, disk Compression tool all are Utility software.

Application Software -> It is software created for specific purpose, used by end users. I can be called an application or simply an app.

Example: word processor, accounting application, a web browser, an email client, media player etc.

Proprietary Software → It is a software that is owned by an individual or a company (Generally the one that development it). There are almost always major restrictions on its use. and its source code it almost always kept secret. The proprietary software is non-free computer software for which the software publisher or another person retains intellectual property rights usually copyright of the source code. It is also known as closed-source software.

Overview of open source technology - open source technology is defined as the development of software for allowing end users and developers to not only see the source code of software, but modify it as well.

Open source software (OSS) - It is a type of computer software in which source code is released under a license in which the copyright holder grants users rights to study, change and distribute the software to anyone and for any purpose. The Linux Operating system (OS) is the best-known example of open source software technology.

Q6 Create file in MS-word to Insert a paragraph about "yourself" Describe are steps init.

Ans 1.) Click on Short buttom
2. Click on microsoft office
3. Select microsoft office word
4 Click the microsoft office buttom.
5 Select new the new document dialog box appears.
6 Creak a file.
7 Click the microsoft office buttom.
8 Select Save As → word document the save as dialg hore appears.
9 Select the location where you want to save the document. Using the drop-down menu.
10 Enter a file name yourself for the document
11 Click the save buttom.

Q7 Write steps regarding following :-
> TO Change the font style
> TO Change the Font size
> TO The fond color
> TO highlight (In yellow) the line that reads need to get Lms. s address.
1 Select the text you want to modify
2 Left Click the drop-down arrow next to the font style box the name to be me font style drop-down menu appears
3 Now your cursor over the various font style A Live Preview of the font will appear in the Document.
4 Left Click the font style you want to use the font

style will change in the document.

3 Change the font colour -
1 Select the text you want to modify
2 Left Click the drop-down arrow next to the font color, color bar on the home tab to Font color menu appears.
3 move your color over the various font color A live preview of color will appears in the document.
4 Left Click the font color you want to use the Font color will change in the document.

4 To highlight (in Yellow the line that) need to get
(i) Select the text you want to modify.
(ii) Left Clicks the drop down arrow next the highlight.
(iii) Colour on the home tab. the font color menu appears.
(iv) move your cursor over the varia text highlighting color (Yellow) A lite preview of the color will appear in the document.
(v) Litt Click on Yellow color want to use the text colour will change.

Q7 Create a file in M.S word for the following document and save it with file name ms word describe are Steps involved.
1) Click on short button
2 Click on microsoft office
3) Select microsost word

4 Click on microsoft office tice button
5 Select news the new document dialag box appass.
6 Type ms word on work sheet and ms word.
7 Click Bold om home tob Press Enter.
8 Type m's word is a widely used Unmerical word proce ssar develped by microsoft.
9 move your cursor over the red color.
10 Left Click the used font color. the font color change document.
10 Select the "word processer" click Under line on Home fob press Enter.
11 Select the text to format as a list.
12 Click the bullts or nubering commonds on the Home tab.
13 Left click the bullet style to use it will apkey in the document.
14 Position your cursor at the end of a list tem and Press the enter key to add an tem to list.
15 Select "creating List click the drop-down we row next the font color
16 move your cursor ever the blue color click the blue font color me blue font color will change in the document.
17 Selects saving and dest click the font this drop down or next to the font color box on the Home tob the font color meane apkeas.

18 move the cursor over the used Font Left click the red Font color that red Font color changes the document click the microsoft office button.

19 Click the microsoft office button.

20 select save as. word document you want to save the document using the drop-down menu.

21 Enter a file name "ms word" for the document

22 Click the save button.

Q8 Create a file in ms. word for the following document save it with file name equations are also involved it Equations

$X+Y=30$

$2x3+5=50$

$Ax+B8=4x+78$

i) Click on microsoft office Button

ii) Select news the new document dialog box appears

iii) Type equation on worksheet and selet "equations"

iv) Click Bold and underline on home tab and press Enter

v) Enter the text $4x+45=30$ + Insert

vi Place cursor in the document where you want to create a subscript or super script.

vii) Go to the Home tab on the Ribbon and click "Subcript and Superscript (X_2) (X^2) In the Font group.