Digital skills Assignment

(1) IEEE Standwards of Internet (Both winded and windeless)

i) Wireless Network: - Wi-Fi came onto the monket in 1997 when the pioneering IEEE 802.11 technical Standard was published, enabling wireless data toransmission at up to embits using an unlinear - sed 2.4 GHZ Diadio spectorum. It's majoon compenci -al commercial boreakthough come in 1999 when Apple intoroduced the first mass-marketed consumer products with connectivity. It's Aiorpoort wiorders base station, and ilbor. Since then, the orgoing based on IEEE 802.116 Wi-Fi standards has Jed to much faster data townsmission rates longer stanges and more reliable and secure Connection, All IEEE 802.19 Standard ownerdments one constructed in a manner such that dovices which can operate according to their specificati -ons will be backward compatible so that any modern IEIE 802.11 device can commo - vicate with older poroducts

1997 1999 1999 2003 2009 2013 2021 Wi-Fi0 Wi-Fi2 Wi-Fi3 Wi-Fi4 Wifi5 Wi-Fi6 Witholess

Missel: IEEE 802.3

The EThernet Data Link:

TEE 802.3 is a combination of standards and protocols defined by the institute of Electrical and Electronics Engineers (TEEE). TEEE 802.3 is also Known as the Ethernet standard and defines the physical and media access (ontrol (MAC) of the data link layer for wired Ethernet networks.

"Ethernet" is the term that's casually applied to a number of very different data link implementation. Now Will hear people refer to "Ethernet" and they might be referring to the original DEC, Intel, and xerox implementat of version 1 or 2 Ethernet.

communication standonds:

Ethernet standard	IEEE Approval dotelypoon	Noithiressal
802.3a	1985-11	cobases lombitis (135mb)
802.36	1985-09	10 BROAD36
802.3c	1985-12	sepeaton speci
802.38	1481-15	Fiber-Offic inter- stepen

Explain in Detail about computer Architecture

Alle: computer Architecture refers to the end-to-end

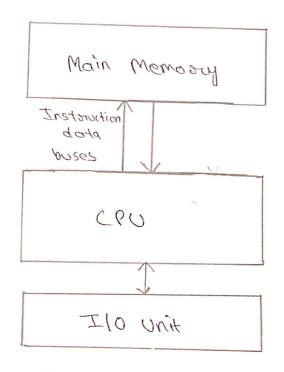
Standard of a computer system that determines

how it's components interact with each other in

helping to execute the machine's purpose (i.e. paro

- cessing data), often avoiding any reference to the

actual technical implementation.



Von-Neumann Aarchitedusie

computers are an integral element of any organi-zation's intrastoructure, forom the equipment employe
-es use at the office to the cell phones
and wearables they use to work forom home.
All computers, regardless of their size, are foun
-ded on a set of parindples describing how
hardware and software connect to make them
function

(3) Explain All types of Devices present in computer and its operations

Arg: Types of computer penices:-

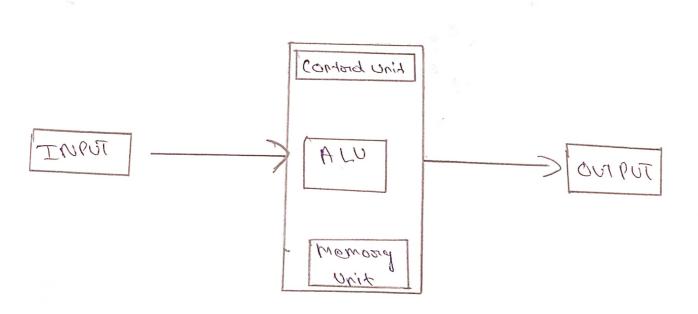
- Depot Devices: In the computer, an input device is a part of computer narraware device that is used to provide data and contain signals to an information processing system such as a computer are information equipment that the text reglocate, Manso, Scanner etc.
- (ii) output Devices! In the computer devices, an output de -vices is a part of computer hardware device that is used to receive data and commands from an information processing system in order to perform a tax. This leads to the results of data process -ing carried out by the information processing system -m. Ex: Speaker, monitor, projector etc.
- (iii) Processing device: In the computer devices, a proce -ssing device is a part of component in a computer that manages the starage and retarienal of info involved. Typical examples of processing devices include central processing units, computer mathemboard, network coads, graphics processing units (confuser mother board, network coads, graphics processing units (confuser mother coads
- (i) storage devices: The storage Data is the record ding of information 1 data in a storage device. Reconding is a complished by any form of orengy.

 memory (and, memory magnetic tape, and optical driver devices it breathings) devices are moinly (ategory ore testing).

- 1) Polimony storage devices: The polimony storage device is tempososily or permanently stored the information (data in a device that they are known as below:
- (RAM) is a form of a computer data storage that stores data the machine code curventy being used. A random-a (cess: memory device allows data (tens to read
 - Permanent starage devices: The Read-only memory (Mom) is a type of non-valuation memory used in computers and in mobiles. It's maily used to store florences -e (software that is closely fled to specific hardware)
- Escandary storage devices: secondary storage device -es are primarily referred to a storage device that serves as an addition to the computer's primary storage, RAM and cache memory. Typically, Secondary storage allows for the storage of ranging from a few bits to perobytes (PB); Some of the secondary storage devices are internal of the secondary storage devices are internal to the computer are Hard-Plat, Rrive, compacting disk drive

(4) Explain CPU Parchitecture and its operations Age. A centaral parocessing unit is the most impositant component of a computer system & cpu is a hardware that performs datalinputlouput, proces - sing and stoorage functions food a computer System A CPU can be installed into a CPU

Pifferent Posts of CPU;-(i) Memory on storage unit (ii) (ontrai unit ALU (Marithmetis Cogic Unit)



- (i) Memoral storage nuit; The womern nuit is resbourible too to constroving information to other units of the computer when needed. It's also known as an internal storage unit as all there Shoorage devices
- (ii) control oniti- A control onit controls the obera -tions of all parts of the computer but it doesn't carry out any data processing operations for exurcteri ti, enoitou eteni borcote poporelo prituposo the computer by using the electrical signal to instruct the computer system
- (iii) ALU (Asirthmetic Logic Unit):- ALU is suesponsible for performing writhmetic and logical functions or operations. It consists of two subsections:
 - (x) AsiAhmetic Section
 - (B) Logic Sedion
 - (B) Asithmetic Section: 14 means operations like Addition, subtanaction, multiplication and alvision
 - (R) Logic Section! We mean operations or fund -s like selecting, comparing, matching, me the data, and all these are partosmod by ALU.