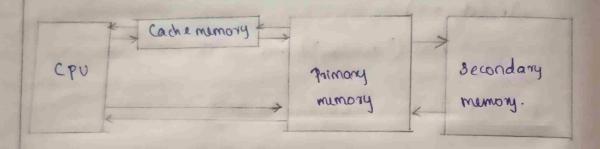
- 13. Standard power supply.
- 14 connecting eables and driver media and required accessonies.
- 3 years comprehensive onsite warrantly.

cache memory.



cache memory.

- cache memory is a special very high-speed memory.
- -> It is used to speed up and synchronizing with high-speed cpu. cache memory is costiler than moin memory or disk memory but economical than epu negisters.

cache memory

- cache memory is an entremely fast memory type that acts as buffer blw RAM and the cpu
- It holds frequently requested data and instructions so that they are immediately available to the cpu when needed.

BOOTH

13 -the system.

POWER

Reset +

CPU 19

The m execute

uses a

This me

output B105 15

->

B105 A ->

on 3e1

B105 5

The B code.

OP

-> Ane 1

-> They (

CFAT 3

Blos

- the

4 - Load

BOOTINGS

is the process of loading and initializing an operating system:

POWER ON COMPUTER

Reset to CPU (CPU is not processing)

CPU 13, ACTIVATED WAR I WANTED TO BE WHEN THE TOP

cpu.

they

The moment cpu is powered on it needs instruction to execute.

uses a non voluntile memory chip, Rom

- This memory chip contains a program called Blos (Basic input output system)
- > Blos is the first program runs on a computer.
- > Blos first builds invertory of devices known as post (power on self Test)
- -> 8105 select storage device from where 0s is to be loaded.
- The Blos has to be very small (21 MB) and is in machine code.

Operating System

- -> Are large complex programs
- > They are stored variety of hardware using complex file systems (FAT 32, EXT4, HFS etc)
- > Blos loads operating system's MBR (Master Boot Record)
- the first sector from a HOD/FOD/USB
- -> Loads 512 bytes from the MBR into memory.

Tirplays 109 Tirmware Hac os HAC os	Penforms Il's own Initializes memory Nitializes devices Stants up a shell	The Os > stage 1 le > stage 2 l > stage 2 l	toades the a toades the a os Loader Typically a toads the acte	
Displays login prompt on austral user interface Firmware - siw embedded on a handware tile system used in Ms-Dos fatso Linux - Exty Cexterned files system 4) HAC OS NFS (Hierarchical file system)	Penforms Il's own mittabligation initializes memory initializes devices starts up a shell	The Os hader may we two Stage loading. Stage I loads stage 2 loader Stage 2 loads the actual Os Boot loader loads Os into memory. Os starts running.	loades the actual system. Os LOADER Typically a Os loader is present in the MBR which loads the actual Os.	BIDS Runs the Os Boot boaden. - executes first instruction boaded from MBR
		, ? ,	MBR which 3: No	R

The interned on "Net" (network of networks) is the largest computer network in the world that connects billions of computer users).

The world internet comes from combination blw "interconnection"

and " Net work"

4. Generally nobody own internet. share nesounces Chandware, software, data, information). communication channels and transmission media allow to Network is a collection of computers and devices connected via

Brief History (cont.)

ARPA - Advanced Research Project Agency. 1969 January 2 - started an experimental computer network

in 1982 the word internet storted.

tacketoi. 1991: Us government allowed business agrencies to connected to

vinton bond cent

-> American internet proneer and is necognised as one of "the forthms of the internet" The world wide web, commonly known as the web, is a system of interviewed hypertent hypermedia documents are ssed

-> Coeabor: Timos Benners-Lee, a British computer scientist, 10

via the internet.

1			1		1000		y 3 8	√	(m	5	\$ P		77	11 5	V		
on e-mail address identifies an e-mail box to which e-mail message may be delivered.	Electronic mail.	E.g. aby a grown com.	and may also include other files as attachments,	internet the over the	Electronic Mal.	10 1995	microsoft these licensed Mosaic to cheate internet explored	First web browsen was developed in 1903, mosaic, by many	Epic was neleased on august 29, 2013.	internet explorer, in ozilla friefox, chrome, opena, Edge, safari,	A software application for retrieving, presenting, and traver-	Web Browsen	mobile device.	through a web browser and displayed on a monitar or	A web page is a document or resource of information that	Web Page	
	4 4	1	J	4			→ J	V	4	5		7	7		4	1	

J J most e-mail on the internet uses the semple most transfer parts, a username and a domain name, in the following from proport (SMTP) where aby is the wername given to the e-mail address, A valid e-mail address is an address temposed of two an example is aby agmost com. username adomainname. extension. are getting your c-mail address. 8 mail is the name of the company or entity that you communication. Thest of personal information. for updates. Respond Advantages of internet. Education financial Anansactions Disadvantages of Internet obsessify and social isolation Dapression. Bujumade malware Threats (malware a malicious software that is dangemon to the computer)

1. ce and occ are two ways you can include more people when you are sending an email to a list of family and friends Bee stands for "blind combon copy". It's called blind comboo listed as coed. It also makes for a clean email since there specifically send to them since there won't be any one other people who have also been cced. won't be a long list of reaciprents. in the BCC field. The email will look as it it has been that don't know each other, for example, but that a addresses a copy of your correspondence. that someone else has been sent a copy of the email. noticed that it will be addressed to you and a list of copy because the other necespients won't be able to see if you've even necessed a coed email, you've probably Buc your supervisor or HR in the emoil so that they get with an employee. when sending them an email, you can when should you use BCC? ec is the abbreviation for "carbon copy" A good example could be when you're having problems as recipients in an email. ce and bee in an e-mail. 5 Data Data ROM eled can The acce

ROM - READ ONLY MEMORY

Primary memory

is a class of storage medium used in computers and other

Data Stoned in Roll cannot be modified or

can be modified only slowly or with difficulty

ROM to beau as services as

- Data can be read the (po in any order so ROM is also direct Rom helds programs and data Permanently even when computer is

Start up the computer. The condents of ROM are fried at the time of manufacture.

Access frome of blu to and so nano seconds.

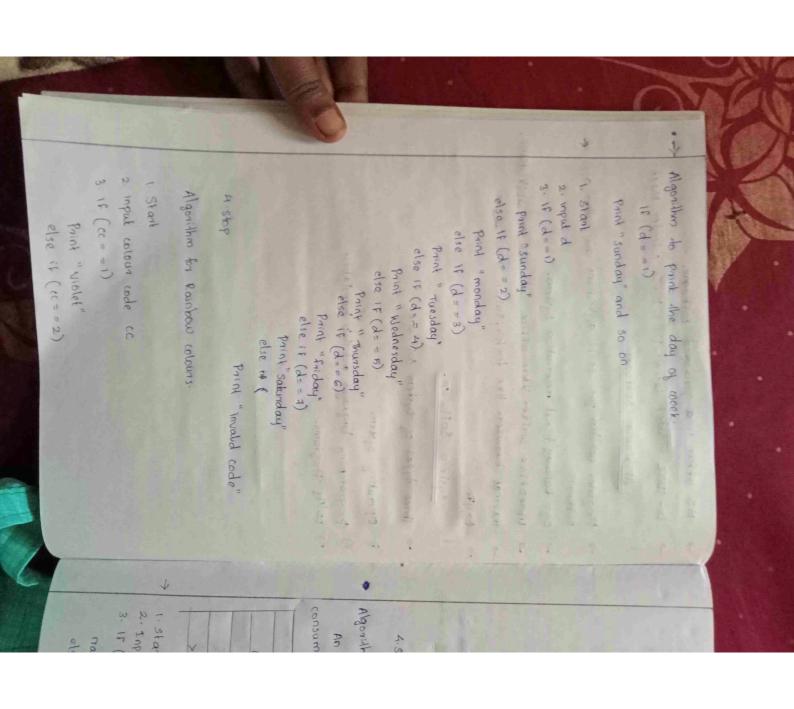
Type of ROM

Program nead only memory (PROM) Enasable Programmable Read only memory (EPROM)

Electrically Enosable programmable Read only memory (EEEROM)

D	0	J L			7								2			
modules that work to gether to met various goals & objective	system software.		System software.	built to speakcations.	HIN is a one time expense w	- The is high of contentainment of gm is 3/w.	- HIW & SIW are also used to represent many other Systems.	a software	- The terminology HARDWARE is used to describe the electronic	Programs.	- The general terminology software is use to describe all	- The precise notation is called a programming language.	a bushami expressed and		POWA-RICE DAWN MANAGED AND MAN	
				3 5	9	J		J	1	5	J	7		P	7	
				things which	Opena	Three	186	5kyte	ותלניוחם	присо	Egi- R	progra		4-3	T _A	

word openating system software. Three types of system software.



· Algorithm to calculate the electricity bill consumers as follows. 1. Start 2. Input units consumed uc 3. IF (UE < 201) 4.500 Print ("indigo")
else if (n==3) An electric power distribution company changes, it's domestic 0, 2,00 nate = 0.50 + uc else if (uc>200) and (uc 2401) 201-400 401-600 Units Print ("blue") else 18 (11==4) else if (cc==5) Print (" Yellow")
else if (cc==6) Print ("orange")
else if (cc = = 7) print ("Red") * Print ("invalid") 390 +1.0 * excess unit consumud. 930 + 0.80 * excess units consumed 100 + 0.65 * excess unto consumed Rs 0.50 Per cinit Rate.

nate = 180+ 0.65 * (uc-200) else 18 (uc > 400) and (uc 2601) Tale = 230 + 0.80 * (UC-400) rate = 390 +10 * (u1-600)

for loop

6. Stop

4. print ("Rate = ", rate)

specifying iteration which allows code to executed repeatedly Syntax 15: in computer science a for loop is a control statement for

to i= 1 to a step. size

body of the loop

next statement.

For eg: For (1=1 to s step 1 · Print (1)

for 1=1 to 10 stops

0/p:= 13579

Print (1)

for 1 = 5 to 1 step -1

(1) posed

0/8 6 4

(1) to atedic D 10 Step2 1. start first o natural numbers 2. Input value of n 2. Input o First a natural numbers and hun squares. 3. for 1-1 to not step! tor in 1 to not step ! 4. Stop. 2. input o 1. Start 4. for 1 = 1 to 0+1 step 1 3-5-0 5 . foint s first a natural numbers and their cubes: 4. Stop. 6. Stop print (i, ixi) 505 ナン prind (i)

```
first o natural numbers and their quadry les
 1. Start
 2. Input n
 3. For 1=1 to n+1 Step 1
       Print (i, 1 * 4 4)
  4. Stop
 first N odd numbers.
 1. Start
 2. input N
 3 - for 1=1 to n+1 step 2
         print (i)
 4 Print "Over"
 5. Stop
 first n even numbers
  1 Start
 2. input n
 3. for 1=2 to n+1 step 2
     (i) bring
  4. Print "done"
 5. Stap
 sam of any n numbers.
1. Start
2 input n
3. sum = 0
4. for 1=1 ton
        input = "any number", or
```

sum = sum +m

2/2/21

Algo

11.

21

51

P

Algo

2 4

3 4

4

6

7

9 1

9 1