## 1. Computer Architecture & Organization.

Computer Architecture & Organisation.

Computer Architecture describes what the computer does and it deals with high level design issues (that are system or computer issues) This computer Architecture is functional behaviour . Fhis- compt for desigining of computer we will go through first architecture this computer architecture involves with different insturction sets, addressing modes and data types

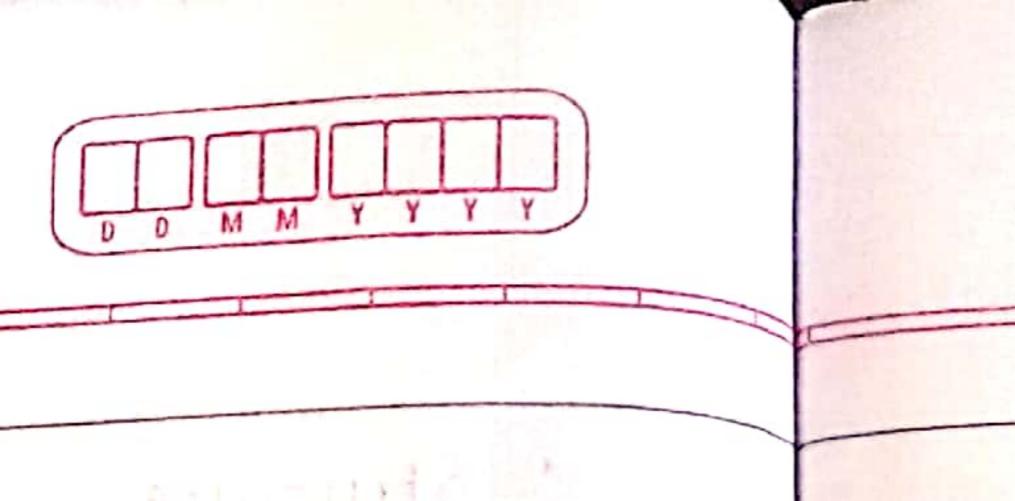
doti - Computer organisation -In computer organization dissecribes Hou the computer do it. - Computer organisation deals with the low level design issues Ci-e logic circuits). - Organisation is structural relationship (The computer having different components) - For designing of computer organization will be Second Part. - Computer organization involves different circuit design designals (, A.L.V., I.C.P.V.; ... - Architecture is those Attributes which is visible to the programmer i.e. Insturction sets, No. of bits No of Data types, Addressing techinques, - Organization is how the features are implimente - For the architecture we consider what to do f the organization how to do

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	Unit I - Introduction				
				Structure and Function.	
•	Computer Architecture.				
	Computer Organization.  Structure and Function.			Structure:-	
- 0	Computer functions.			Structure is the way in which the compone	ents
20	Functional view.  Difference between comp	Architecture and		relate to each other	
Q	Difference between comp	outer Architecture			
	Organization	Campuller Aradnization.		Function:-	
>	Computer Architecture	Computer Organization.			
-12	Computer Architecture is a functional behaviour of	dools with structural		function is the operation of individual com	por
	computer system.	relationship.		ents as a part of structure.	
	computer system.				
2)	Analitacture describes	2) Organization describes how it does.		Computer functions.	
	what the computer does.		1/	Data Processing.	
	what the compare		2)	Data Storage.	
	Cor designing a computer	3) For designing q Computer		Data Movement.	
_3/	ila architecture is fixed	organization decided after	4)	Control	
11	First.	its architecture.			
				Data Processing Csource Adestination of data)	
4)	Computer architecture	4) Computer organization			
	inaturalian coto	CODSISTS OF PRIGITY	Mary Street, S	Functional view.	
	radictore data tupes and	units like circuit design		Morrent	
The state of the s	addressing modes	parepharals and addresses	3.937377	(Apparats)	
	The state of the s				
5)	LI CIECIO	5) It deals with low			
	level design issues.	level design issues.			
6)	e.g. Is there a multiply	6) e.g. Is there a hard-		Data	
	instruction.	ware multiply unit of the	Data	Control	
		done by repeated addition.	Facil	Michansm	
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Data Moment Control Mechanism. Data Data storage processing Facility Facility The computer functions are data processing data storage data movement and control. the Functional view of a computer is shown in Figure (a). This this figure first we have to consider data movement approach it is basically

a control mechanism here, the data moment

apporach source and destination of data involved

In the destination we will get the data

from source. In above figure two grows

are shown that arrows indicates different

operation of a computer.

For the data processing computer must be able to process the data which may take a wide varity of forms and the range of processing.

For the data storage computer can store data temporary or permanently.

For the data movement computer must be able to move the data between itself and outside the world to control the different functions of a computer the control mechanist is provided.

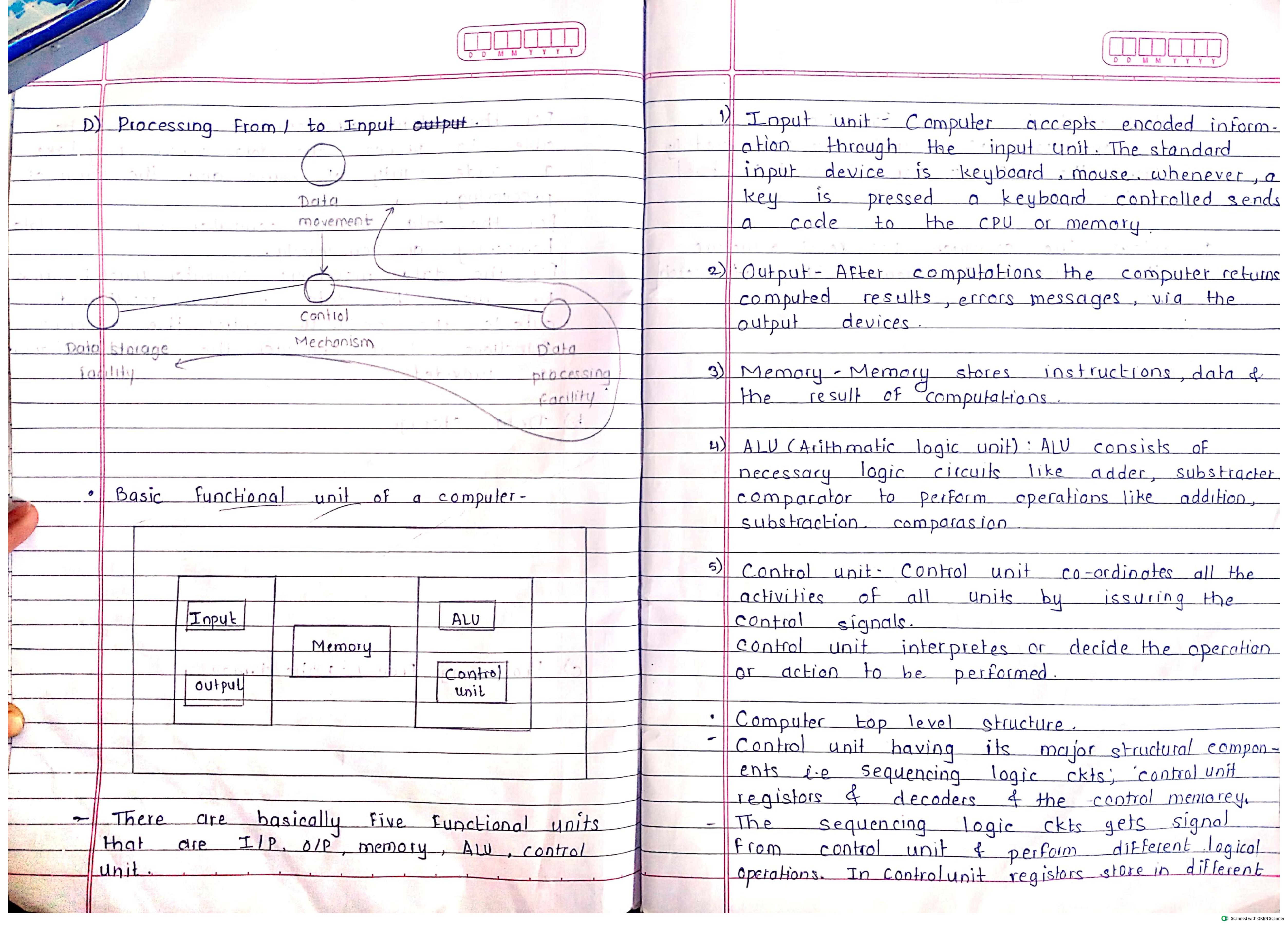
Data mechanism Data processing storage:

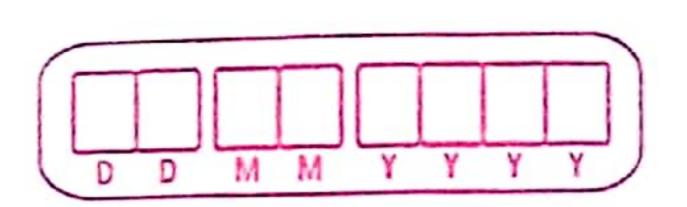
c) Processing From 1 to the storage.

Pala movement

control
mechanism

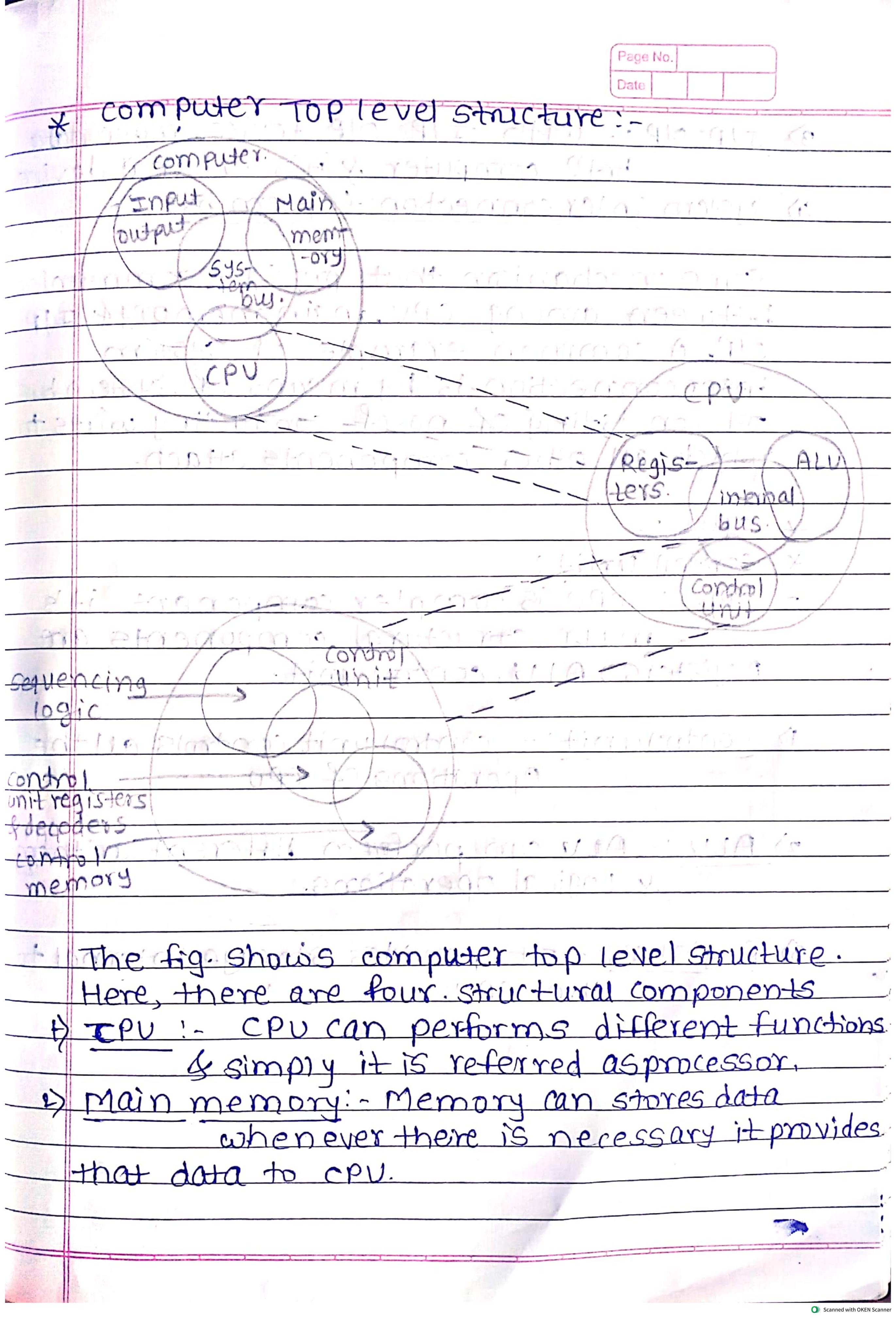
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	in the praction
	data which is required for the program.
1	The operations of control unit performed by
15/37	The operations of control unit performed by getting the different signals 4 result is stored
	in the memory.
0.	Explain the computer Lop kevel structure
	with structural components with near sketch
V	
	diagram
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3.	The state of the s
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3) IIP OIP. with IIP OIP devices move data bet? computer & it's external device ) system inter connection: (system bus):some mechanism that provides communica between among CPV, main memory & I/P 0/P. A common example of system interconnection is by means of system bus It consisting of no. of conducting wires to which all other components attach. control uniti-CPU: - CPU is complex component. its major structural components are Registers, All control unit. controlunit! - control unit controls authe operations of CPU. V:- ALV can perform different arithems.

\_ & Logical operations. 3) Registers: - It provides storage internal to thet CPU.