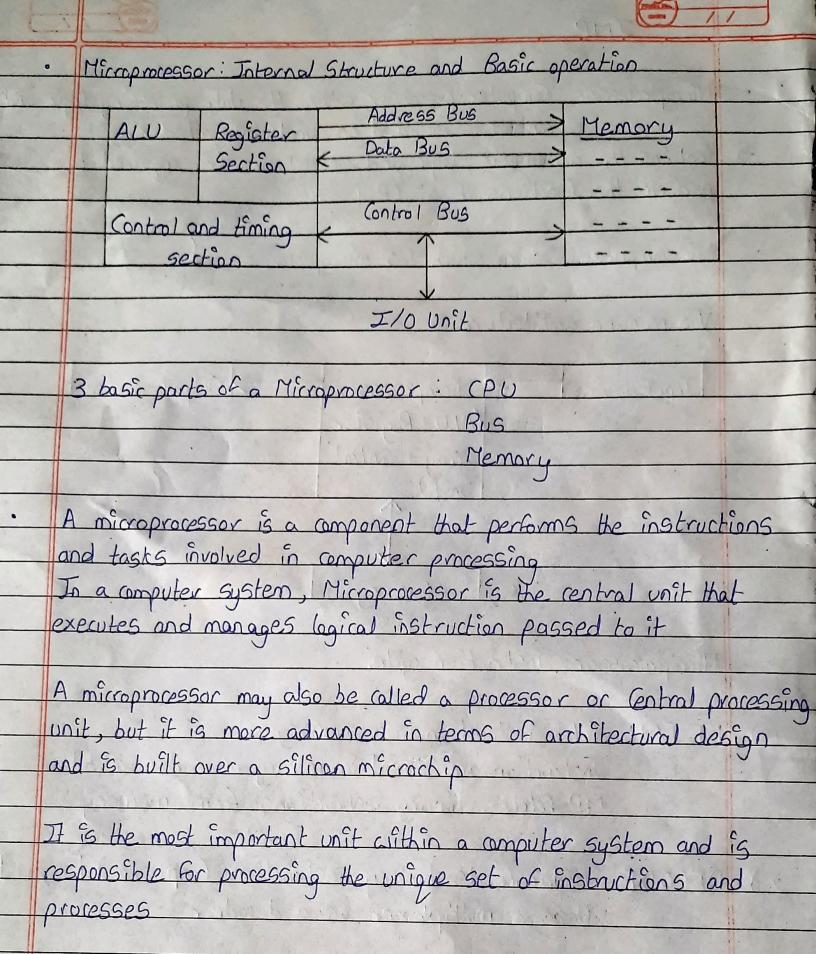
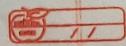
	IMP	
		4
	Micropromsson: Computer processor where the data processing los	gic and
	control is included on small integrated circuit	
)	Control is included on small integrated circuit Contains the arithmetic, logic and control circuitry required to	
	perform the functions of a CPU	
	Microcomputer: Device which has microprocessor in it	
	Thraday Ster Cond Santa	
	Von neumann architecture >	
	Input device Microprocessor Dutput device	
	(ALU+ Register array + Goton)	
	Unit)	
200	A mercyrogesor is a compared that passans the instant	•
,	and well and in an analysis and both the board	
	the Box before all all memory to astale salmon to	
	Microprocessor: Instruction aide	
pho Day	A charge grace of any charles all properties of the fall of	
1.)	FETCH-Fetch instruction from memory	
	Instruction are started in memory as series of bits	
	MP Fetches binary instructions from memory	
2)	DECODE - understands binary instruction (opcode) [o,	, 7
	Uses a multiplexer as a decoder	
3.)	EXECUTE - executes the decoded instruction	



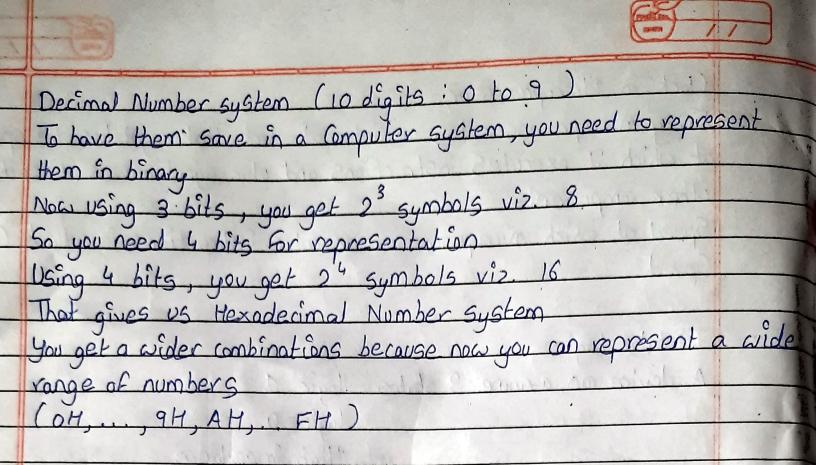
- Lance		
	3 basic parts of Mimpromssors	
	5 pasic parts of Maspronessors	
,)	CPU	
	A computer's CPU handles all instructions it receives from	4
	I also as and or Clarace cunning on the winding	
	CPU is sabricated as a very large scale integrated circuit a	nd_
111	1. C Hann midt	
# 1012	Tackardian Register that holds the instruction to be exercise	<u>d</u>
	Dandag alich darades the instruction and service	
11-1	ALLI (Ashmetic logic Unit) has curvits to person with	neric,
	logical monory, register and program sequencing operations	,
-	Registers holds intermediate results obtained during project	M
	processing	
	a la	
2.)	Bus c 151 and classifications	
	A bus is a high speed internal connections	
	Buses are used to send ontrol signals and data between the processor and other components	6
6	3 types of Bus:	
	Data Bus - lines that carry data to and from memory	
A STATE OF	Is hidirectional with width equal to word length	20
	the microprocessor mind	10
	JEPEM Sollie Rordon Pirora Manary	1
ii	Address Bus - Is unidirectional responsible for carrying addre	055
	of a memory location or I/O part from CPU	to
	memory or I/O part	
-		
<u>iū</u>	Control Bus - lines that carry control signals like clock signals	5,
	interrupt signal or mady signal	9
	Are bidirectional	
	Generates timing and control signals	

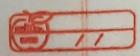
			=
3) Memo	ory (Semiconductor Memory)	***
	Store	os data and instruction	
	12 h	nes:	
ì	PAR	1 (Read only memory)	
ii	11 0 1	1 / / - 1 - 10 00000 11/01/01 11	
-	1		not 1
			Ha
	nome	ally change while it executes, while associated	
	carick	Love and RAM	
ik	JE yo	when off the chip and turn it on again, you have cost	
	the w	ntent of registers and ram.	
	ANA C	actual basis to sure a laborated a last and the sure	
i	ROM		
	Types		750
a	MRON	4 Masked Read only Memory	
Ь	PROM		
_	EPROI	M Frasable Rogrammable Read only Memory	
d	EEPRO	M Flectrically evasable programmable Read only Memor	4
ii	RAM	To be the Birth of the property of the state of the	
N	Types	in the bound of the transfer to a live that the second of	
a		1 Dynamic Random Acress Memory	
		1 Static Random Acress Memory	
13.94	Add a	Missey By To the Property of the Francis	
1-11	DRAM	: slow, uses capacitor for storage	
	SRAM	: Gost, uses Aip-Aops for storage	
		or storage	

3 basic types of Microprocessors CJSC (Complex Instruction Set Computer) Computer architecture in which single instruction can execute several low level operations capable of multistep operations or addressing modes within single instruction 2) RISC (Reduced Instruction Set Computer) Microprocessor designed to perform a smaller number of types of computer instruction so that it an operate at a higher speed 3.) EPT((Explicitly Pavallel Instruction Computing) 64 bit, provides upto 128 general and Anting point unit registers and uses leading, prediction to accomplish it's task



•	Clark in Microprocessor	
135	Every microprocessor has an internal clock that regulates the at which it executes instructions and also synchronizes it will	speed
	at which it executes instructions and also synchronizes it as	111
	other consoners	
	Speed at which microprocessor executes instructions is called	LOCK
	Speed	
100	Thickness 1-ic	
	Tristate logic A device an assume 3 states: logic 1	
	A device an assume 3 states, logic 1	1
	High impedance	
	an he thought of as a switch	
No.	Reduces Number of pin required	
	Reduces the cost of hardware	1
	The state of the s	1
	Tri state logic is used to allow multiple circuits to share the	same
	output or bus lines which may not be apable of listening t	o more
	than one device or circuit at a time	
	In this cay, high impedance state arts as a selector whi	ch
	blacks out circuits which are not being used	The state of
10	Then the circuit is in high impedance made it looks as i	It it is
d	isconnected from the output completely	
		1
E	Bit -> Binary Digit (0 and 1)	
D	ectimal digit > 10 symbols (0 to 9)	
IN	1966 (4)	
		-
	yte 8 Bit Word	
	아일 하면 그는 아르게 보고 아름다면 그 아이는 아이들은 아이를 가지면 된 것이다. 아이를 바다 내려가 하는 사람들이 아이를 보고 있다.	
llon	y Word 32 J	
	The state of the s	250000





	We use Hexadecimal system because by using that we can store
	more information in loss space
	Decimal Hexadecimal -> Binary
	O OH 0000
	9 9H 1001 4 bits
	(10 values) AH (10) 1010
	FH (15) 1111
	(16 values)
	Hexaderimal to Binary: 8.421 Format
4	
	F-9: FH(15)
	3H 0 0 1 1 4 bit 10.5
	$(H(12) \qquad 1 \qquad 0 \qquad 0$
	35H 0011 0101 2 8 bit 00 5
A	35H 0011 0101 6 8 bit no. 5
	I Consider and the time to which the diedis to truckees on the seeke
11	8 bit no. 5: 16 bit no. 5
	00 H 0000 H 1
	50 1975 (Colored Tothertine Tet angles)
27	FFH Shan selly FFFFH by the production of the
	Byte Will be to Wood as Blother air will be and a significant
E.g	25 6000
	FC (eitherna 511FC out tollers) 1107 1107
in pro	62 x 1200 100 g or 100 1572 1 0000 300 100 5000000 11 001
	that is the summed with home without in

