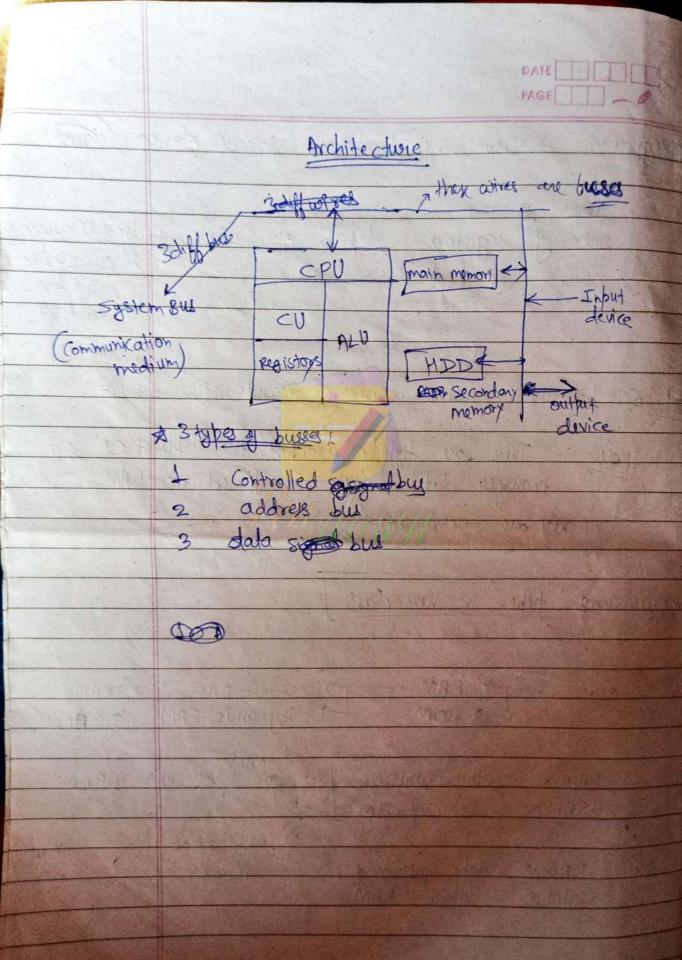
PAGE computer programming (es1210) A Text Ref books? The complete sufferince TMH
The c pringramming language by kushishan Ritchie, PHI (20 3) Let us c yashavant Kantbarr & BPB c in depth by sk spivastav computer fundamental & programming, spa # why c!- Problem Solving skill critical thinking programmable * Computer !- , electronic device which is under the Control of set of instructions which and given by the programme and softward to Oproces the data or manipulate the data on 1 to store the data @ to manifoldate the data 1 to sufficient the data A architectury = Von Neumann

Components of CPU COU Inlut Registorys [memory Control unit thex are of के लाज भी the CPV Eduction all asithematic & logical ALU! logical after we use gates Circuits are made of gates manage all hardware by signals with the help of 2.4 GHZ clock puble means 24 X10° Instruct Sec

of Registors! They one temporary storage device (400) size of registors depend on size of wichitecture
like 3214 16 6175 64 bit anch. means size of sugistor is 64 bit polit They one tightly attached to ALU & CU so transfer data fast compared to RAM They are very fast presistors type in next class I RAM I Static RAM (SRAM)

Dynamic RAM (DRAM) We want. SRAM = with Transistors SRAM fast than DRAM DRAM = 11 Capacitors DRAM = actual RAM

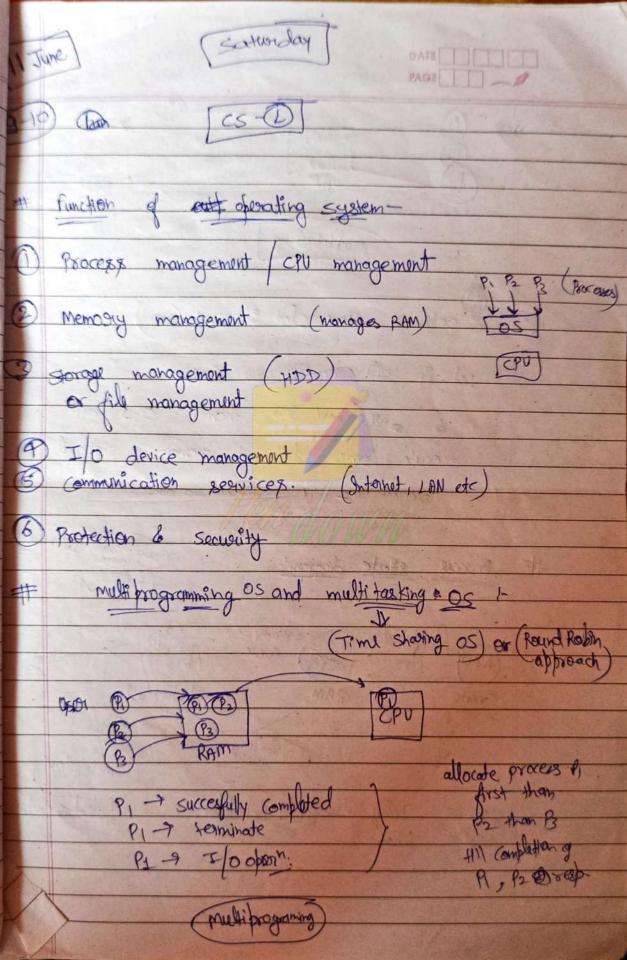


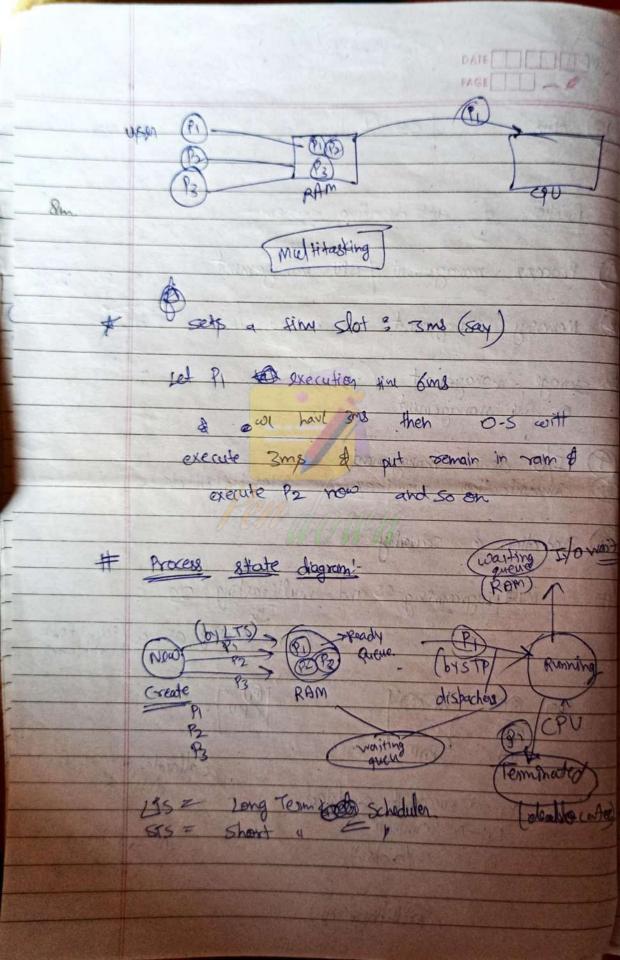
said both soll should be independent Computer Sprag 11-12 -Addressbur (Adds Greesponding address) Chalds Input memory A Bus is a Communication medium in form of wire > 2+yps -> (:) Internal -> in CPV (11) External -> other all & Registor is made of IFF = 1 bit 64 bits

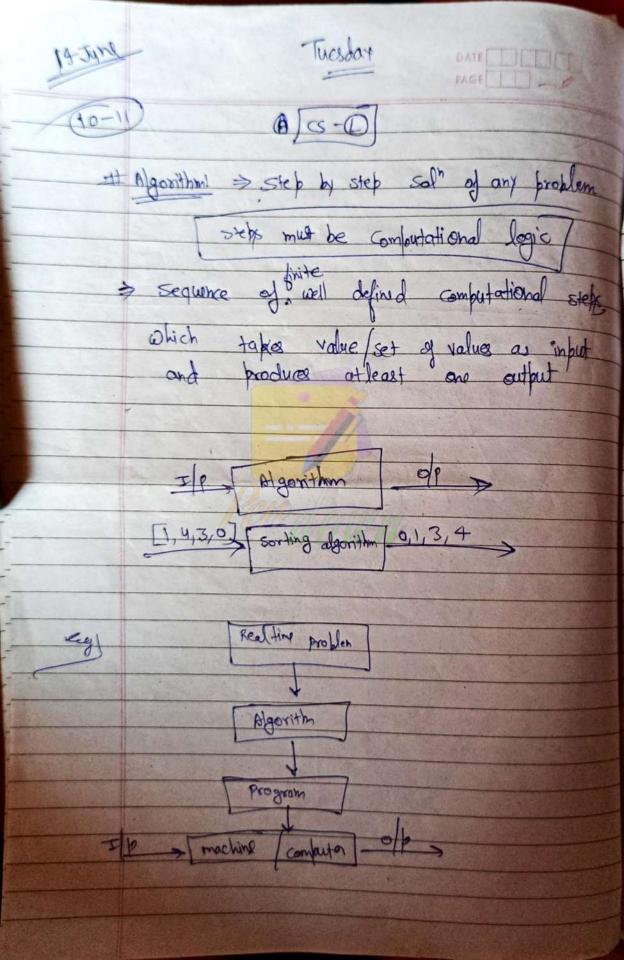
C = (A+B)sone types of suggistors Instruction progristor = control by control unit CWOIGHT IR MAR (Accumulator GIPP. 7 General Purpose sessictor MAR= memory address registor ACC-> Take data from Pain & to MDR also Store Data & result PC-9 programme counter - record all Enstructuction & store address for next makes pretructions to be fetched falor memory.

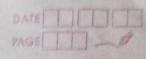
GPP = 16 different - ? To store all gramme se data buses in a intermediale result De ochies by - 7/400 from Anda bus 2 accumulator 2 accumulator. by buses addres by Tuo data by 5 control bus furite Size of sesistons is quite limited. So we have to go we store y special memory = cache memory. greenctions en & cache -> CPU 12, 23 caket nother board

In order of speed of data framefer Scache marrowy In Cache (inkb) Command your CPU L, Cache









Anle	to babstraction of program to be executed on machine
#	charactoristics of also :-
0	easy to understand
3	
3	effectiveness (must be terminated) shace complesity must be as less as possitions.
	(Space completely must be less)
3	output mut be correct
2	voidiable
3)	produce at lost one output
*	
eyl	Simple Inderen SI = PXXX }
	(1) Start
	@ Input P, DI, t
	Compute ST = PARAT
	(a) print SI
+	(S) 540b.
-	310p.