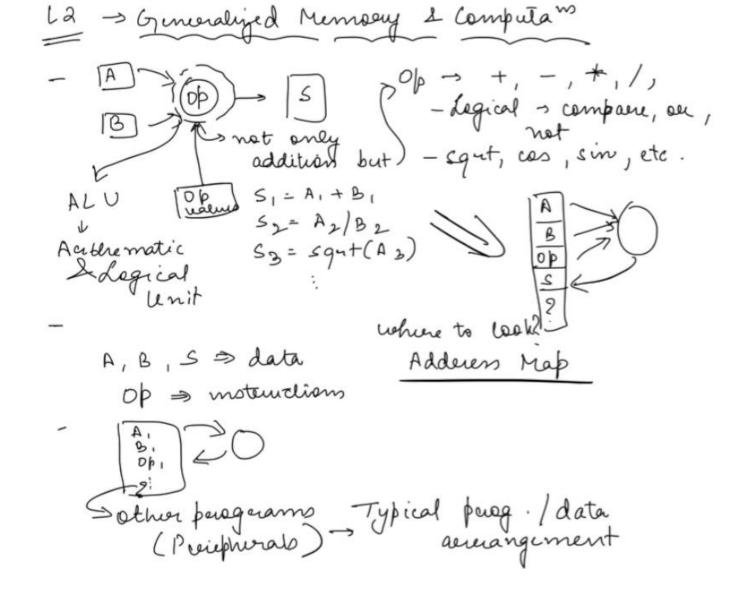
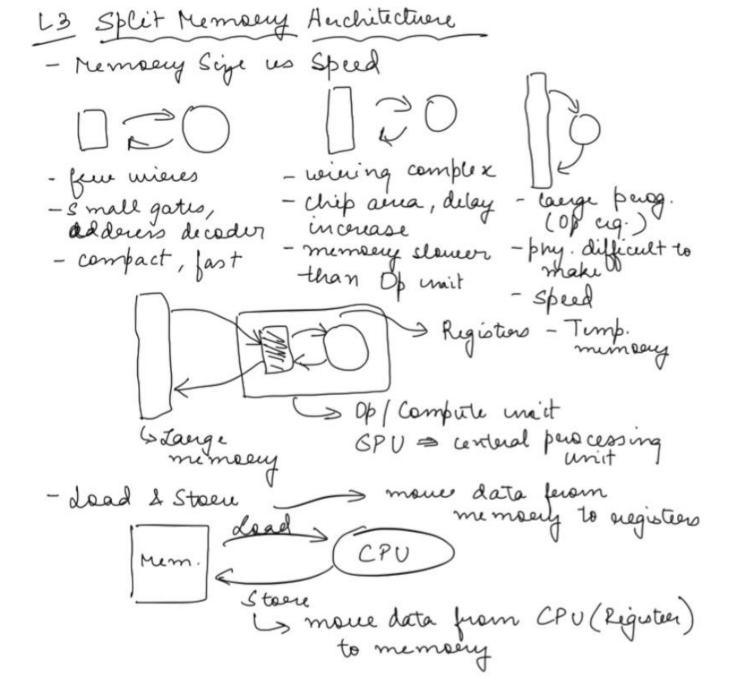
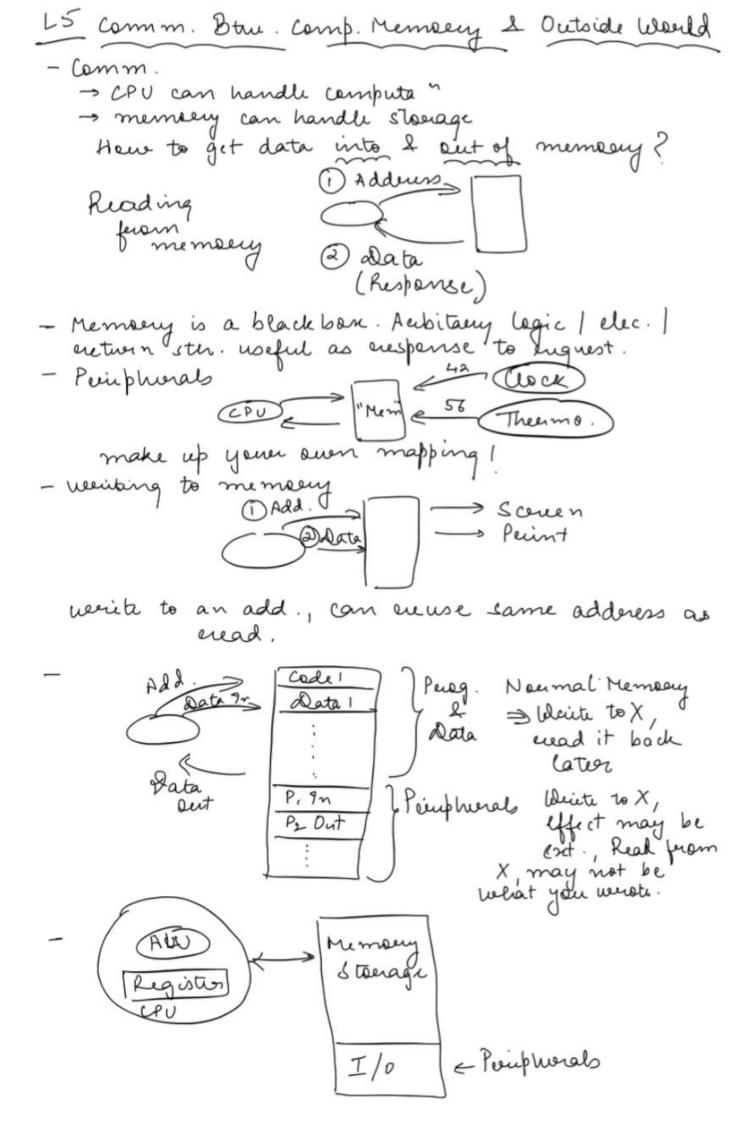
Week-1 C
LI thouse a computer Wheeks - Computer - Good: Add a nos. Computers Comput
- Reg. → cup. no. as electured signals digital cys bit (binary digit) → hardware for performing of m digital legis → comm. with outside would (workers for I/0/carfig.) - Repeated computations? S ₁ = A ₁ + B ₁ S ₂ = A ₂ + B ₂ B Thereby Sudue B Thereby Thereb
- Membery → bag of words - but things in ⇒ wenter - see what is in it ⇒ Read - where in the bag it was kept ⇒ Address Stone some bits ⇒ weidth finite space # addresses ⇒ capacity





Ly Loops, Conditions & Beranches - CPU - capable of of to perform compute of capable of of memory, data for compute in memory, more data both. CPU of memory. Do this herry fast. - What abt. cup. tasks? - Perog. = sig. of opos SCPU tealks pas of next instruct using Personam Counter -> 1,2,3. What to do if I want to eveplat k times? Loop Counton = incerement & compare Memory Perogram Counter - Step 1 - Conditions ou Branches - need not ustind Purgeram Counter Ds to leak - any cound " can be a terigger to & the contend flow of a perog. -> Op -> Auth. & Logic - Memory - Load & Store -> Centeral Flace -> Buanches I happs



L6 What is Purguamming
$$ax^{2} + bx + C = 0$$

$$x_{1} = -b + \sqrt{b^{2} - 4ac}$$

$$2a$$

- define inputs (a,b,c) & outputs (x,, x,)

- maje inputo to a memory model so use can load/store as needed.

- benak the computa into steps that own comp.

can perform

Les temp. storage = variables

- some oles.

1. curry step is busken in terms of comp perimitties.

2 lead/steen is skipped - small mough to fit

3. swarningly alw. Eleps splet out in detail (4ac) 4. temp. stoerage use can be further enduced.

- put the vacciables in app. parts of the memory

- put down tru sig. of opera med est to de the compute

- Algos + Data Stemetures = Pugenams

L7 Intro to c dang.	
- Matria ~ → need four DS four new shacking → noumally perog. in an embey larg. → pourability of perog. (use features of new purcessoes)	
- compile ~ > convert high lul descenp to machine code > new lang. — existing ones specialized for other uses. > Beotshapped compiler 1. Assumbly conecuts C to assumbly 2. C converts C to assumbly.	(
- Popularity of C > designed very close to handware A 08 > minimal orig. — lasily portable - good target for any new processor/egg. - most common first lang.	
- Peroperties - Peroperties - Imperative (ALGOLS) -> specify commands - Statie type & weakly typed (easy converses -> Static type & weakly typed (easy converses -> Stauctured perog. (funct & blocks) -> perog. as ferre form lext -> casy to store & Share.	, wn