

library ieee;
use ieee std-logic-1164 all;
use ieee std-logic numeric-std all;

package cpu-4004-pkg is

subtype byte is integer range 0 to 15;

constant byte-values: integer := byte!high+1;

subtype addr-range is integer 0 to 15;

type memory type is array addr-range) elba

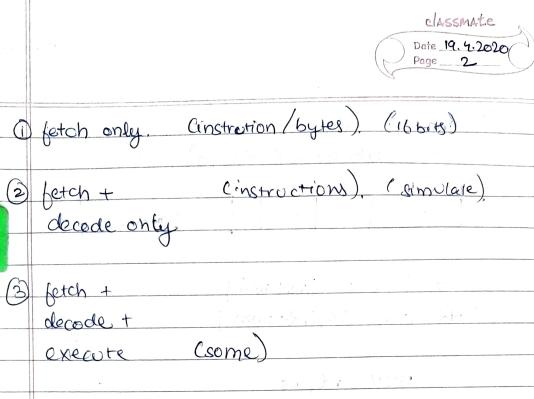
type memory type is array addr range) of byte;
ragisters [process: register] (alk, rst).

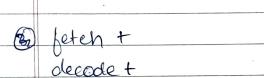
es...

C.S.

flags

Dimake a simple 18-bit apo Custing behavioural obsign).				
	op 1	rel rs	ime/m	em .
(i) man	load Store	rd, [rs+imr	m] g mem.	
	mov ?	rd, rs		control
	and or not	rd, rs drd, rs rd rd, rs	log at	The state of the s
	ada	rd, rs		jz ras
	Sbb	rd, rs		joz rs joz rs
		rd, rs	avilhmetic	O.jmp WS+ Mm rett x
	ídiv	rd, rs.	J	no stall.





execute del

breakup to components,

By bit.

