

Here for simplicity sake we assume

→ mode = md

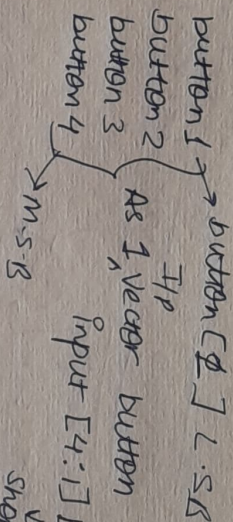
reg [7:0] count1 → ct1

reg [7:0] count2 → ct2

reg [7:0] count3 → ct3

reg [7:0] count4 → ct4

output [7:0] led



input [4:1] bt;

Possible status bt may have

xxxx1  
xx10  
x100  
1000

→ Initially at so status all ct's becomes zero that only happens when reset = 1

Here so is default status & initially all ct are 0 input reset = 1

Here If we take o/p led = ff = 11111111 i.e all leds light up

md=0, bt=0000100

→ Default1 (D1)

ut there i/p & o/p combination

md=1, bt=0000100

→ Default2 (D2)

be labels as shown



