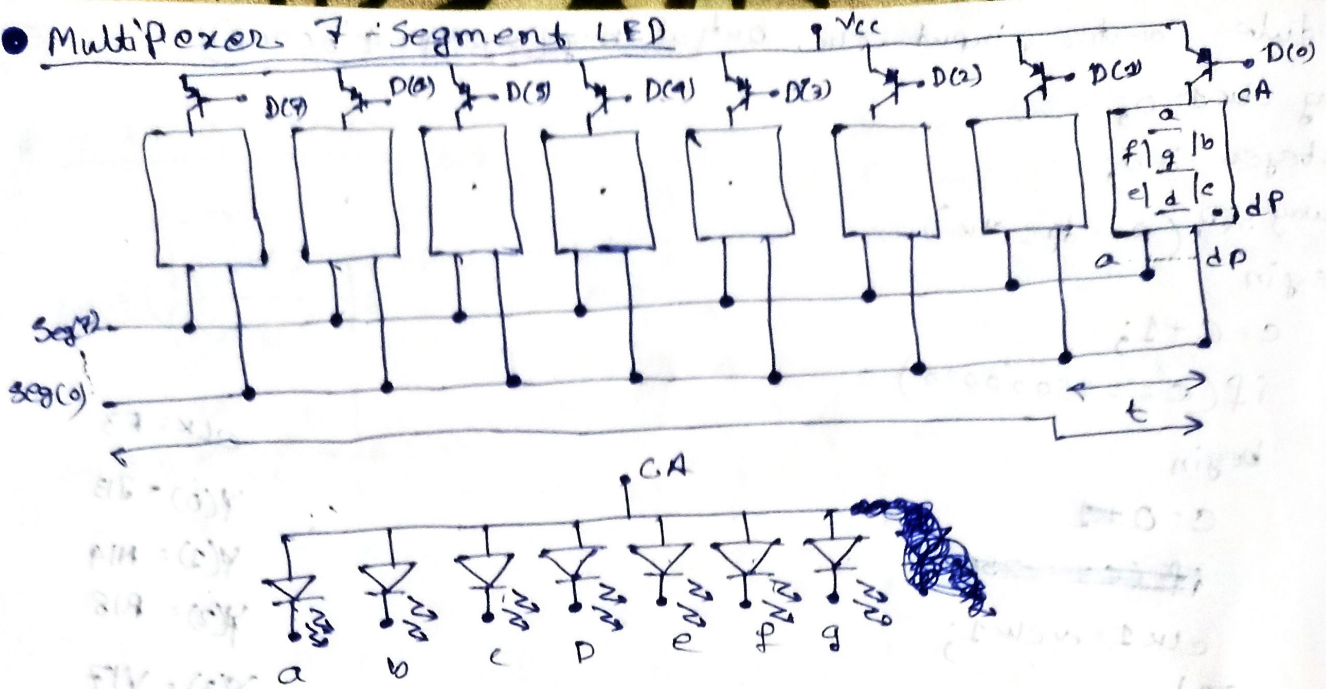


# ● Multiplexer 7-Segment LED



module Seg7 (input clk, output reg [7:0] D = 8'hFF, output reg [7:0] seg);

reg clk1 = 0;

integer C = 0;

reg [2:0] n = 0;

always @ (posedge clk)

begin

C = C + 1;

if (C == 100000)

begin

C = 0;

clk1 = ~clk1;

end

end

always @ (posedge clk1)

begin

n = n + 1'b1;

D = {D[6:0], D[7]};

end

always @ (n)

begin

case (n)

0: seg = 8'h03;

1: seg = 8'h9F;

2: seg = 8'h25;

3: seg = 8'h0D;

4: seg = 8'h99;

5: seg = 8'h49;

6: seg = 8'h41;

7: seg = 8'h1F;

default: seg = 8'hFF;

end case

end

end module

D(0) = J17

D(1) = J18

D(2) = T9

D(3) = J14

D(4) = P14

D(5) = T14

D(6) = K2

D(7) = U13

CLK = E3

seg(0) = H15

seg(1) = L18

seg(2) = T11

seg(3) = P15

seg(4) = K13

seg(5) = K16

seg(6) = R10

seg(7) = T10

seg(8) =