

1.....

```
module nowshin_lab( w,y);  
  input[5:0]w;  
  output reg [2:0]y;  
  always @(w)  
  case (w)  
    6'b1xxxx: y=4;  
    6'b10xxxx: y=5;  
    6'b00xxx1: y=0;  
    6'b00x1x0: y=2;  
    6'b00x010: y=1;  
    6'b001000: y=3;  
  
    default : y=3'bxxx;  
  endcase  
endmodule
```



