**7. Design an automatic night lighting system such the system is only activated when the master control switch is pressed. a) Below 300 lux led glows with full brightness. b) Above 300 lux led glows with 50% brightness.**

void setup()

{

pinMode(2, INPUT);

Serial.begin(9600);

pinMode(6,OUTPUT);

}

void loop()

{

int b;

b=analogRead(A1);

Serial.println(b);

int a= digitalRead(2);

delay(100);

if (a == HIGH)

{

if(b<300)

{

analogWrite(6,255);

delay(30);

}

//delay(100);

else

{

analogWrite(6,127);

delay(30);

}

//delay(100);

}

}