***Name:*** PRERNA VERMA

***Class:*** CSE-BD-01(A)

***UID:*** 19BCS3777

***AIM:*** Design a system that automatically turns on the light inside an Amirah whenever it is opened and turns off the lights after 100ms if there is enough light.

int sensorPin = A0;

int ledPin=7;

int sensorValue = 0;

int brightness = 0;

void setup()

{

Serial.begin(9600);

pinMode(7,OUTPUT);

}

void loop()

{

sensorValue=analogRead(A0);

Serial.println(sensorValue);

delay(100);

if(sensorValue<1060)

{

digitalWrite(7,HIGH);

if(sensorValue<400)

{

analogWrite(7,0);

}

else

{

digitalWrite(7,HIGH);

}

}

}