```
int led1
         = 8;
int led2
         = 2;
int led3
         = 3;
int led4
         = 4;
int lightSensorPin = A0;
int analogValue = 0;
void setup() {
Serial.begin(9600);
                       //sets serial port for communication
 pinMode(led1,OUTPUT);
 pinMode(led2,OUTPUT);
 pinMode(led3,OUTPUT);
 pinMode(led4,OUTPUT);
}
void loop(){
 analogValue = analogRead(lightSensorPin);
 Serial.println(analogValue);
 if(analogValue < 40){
  digitalWrite(led1, HIGH);
  digitalWrite(led2, HIGH);
}
 if(analogValue < 20){
  digitalWrite(led1, HIGH);
  digitalWrite(led2, HIGH);
```

```
digitalWrite(led3, HIGH);
digitalWrite(led4, HIGH);

delay(200);
digitalWrite(led1, LOW);
digitalWrite(led2, LOW);
digitalWrite(led3, LOW);
digitalWrite(led4, LOW);
}
```