int sensorPin = A0; // select the input pin for LDR

int led1=5;

int led2=6;

int led3=7;

int pir = 9;

int pirState = LOW;

int pirval = 0;

int sensorValue = 0; // variable to store the value coming from the sensor

void setup() {

pinMode(sensorPin,INPUT);

pinMode(pir,INPUT);

pinMode(led1,OUTPUT);

pinMode(led2,OUTPUT);

pinMode(led3,OUTPUT);

Serial.begin(9600); //sets serial port for communication

}

void loop() {

char readstr;

if(Serial.available()){

readstr = Serial.read();

//Serial.print(readstr);

if (readstr == 'A'){

digitalWrite(led1,HIGH);

}

if (readstr == 'B'){

digitalWrite(led2,HIGH);

}

if (readstr == 'C'){

digitalWrite(led3,HIGH);

}

if (readstr == 'a'){

digitalWrite(led1,LOW);

}

if (readstr == 'b'){

digitalWrite(led2,LOW);

}

if (readstr == 'c'){

digitalWrite(led3,LOW);

}

}

if(readstr == 'D')

while(readstr != 'd'){

if(Serial.available()){

readstr = Serial.read();

}

sensorValue = analogRead(sensorPin); // read the value from the sensor

//Serial.println(sensorValue); //prints the values coming from the sensor on the screen

if(sensorValue >= 780){

digitalWrite(led1,HIGH);

digitalWrite(led2,HIGH);

digitalWrite(led3,HIGH);

}

else{

digitalWrite(led1,LOW);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

}

pirval = digitalRead(pir); // read input value

if (pirval == HIGH) { // check if the input is HIGH

digitalWrite(led1, HIGH); // turn LED ON

digitalWrite(led2, HIGH);

digitalWrite(led3, HIGH);

if (pirState == LOW) {

pirState = HIGH;

}

} else {

digitalWrite(led1, LOW); // turn LED OFF

digitalWrite(led2, LOW);

digitalWrite(led3, LOW);

}

}

}