

```
int led = 2;
```

```
int led1 = 3;
```

```
int led2 = 4;
```

```
int led3 = 5;
```

```
int led4 = 6;
```

```
int ldr = A5;
```

```
int ir = A0;
```

```
int ir1 = A1;
```

```
int ir2 = A2;
```

```
int ir3 = A3;
```

```
int ir4 = A4;
```

```
void setup()
```

```
{
```

```
  Serial.begin (9600);
```

```
  pinMode (led,OUTPUT);
```

```
  pinMode (led1,OUTPUT);
```

```
  pinMode (led2,OUTPUT);
```

```
pinMode (led3,OUTPUT);
```

```
pinMode (led4,OUTPUT);
```

```
pinMode (ldr,INPUT);
```

```
pinMode (ir,INPUT);
```

```
pinMode (ir1,INPUT);
```

```
pinMode (ir2,INPUT);
```

```
pinMode (ir3,INPUT);
```

```
pinMode (ir4,INPUT);
```

```
}
```

```
void loop()
```

```
{
```

```
Serial.println(analogRead(A5));
```

```
int ldrStatus = analogRead (ldr);
```

```
if (ldrStatus <=500)
```

```
{
```

```
digitalWrite(led, HIGH);
```

```
analogWrite(led,255/5);
```

```
digitalWrite(led1, HIGH);
```

```
analogWrite(led1,255/5);
```

```
digitalWrite(led2, HIGH);
```

```
analogWrite(led2,255/5);
```

```
digitalWrite(led2, HIGH);
```

```
analogWrite(led2,255/5);
```

```
if (analogRead(A0)<300)    // IR 1 CODE
```

```
{
```

```
    digitalWrite(led,HIGH);
```

```
    analogWrite(led,255);
```

```
    delay(1000);// micro second
```

```
}
```

```
else
```

```
{
```

```
    digitalWrite(led,HIGH);
```

```
    analogWrite(led,255/5);
```

```
}
```

```
if (analogRead(A1)<300)    // IR 1 CODE
{
    digitalWrite(led1,HIGH);
    analogWrite(led1,255);
    delay(1000);// micro second
}
else
{
    digitalWrite(led1,HIGH);
    analogWrite(led1,255/5);

}

if (analogRead(A2)<300)    // IR 2 CODE
{
    digitalWrite(led2,HIGH);
    analogWrite(led2,255);
    delay(1000);// micro second
}
else
{
    digitalWrite(led2,HIGH);
    analogWrite(led2,255/5);

}
```

```
if (analogRead(A3)<300)      // IR 2 CODE
```

```
{  
  digitalWrite(led3,HIGH);  
  analogWrite(led3,255);  
  delay(1000);// micro second  
}
```

```
else
```

```
{  
  digitalWrite(led3,HIGH);  
  analogWrite(led3,255/5);  
  
}
```

```
if (analogRead(A4)<300)      // IR 2 CODE
```

```
{  
  digitalWrite(led4,HIGH);  
  analogWrite(led4,255);  
  delay(1000);// micro second  
}
```

```
else
```

```
{  
  digitalWrite(led4,HIGH);  
  analogWrite(led4,255/5);
```

```
        }  
    }  
  
    else  
    {  
  
        digitalWrite(led1, LOW);  
        digitalWrite(led2, LOW);  
        digitalWrite(led3, LOW);  
        digitalWrite(led4, LOW);  
  
    }  
  
}
```