# ASSIGNMENT 1

```
const int buzzer =10;
  int echopin =9;
  int trigpin =8;
  int ldr = A3;                 //assigning ldr pin no.
  int bulb = 7;                 //assigning bulb pin no.
  int mesafe;
  int sure;

void setup()
{
    pinMode(bulb, OUTPUT);       //setting pinmode as output
    pinMode(ldr, INPUT); //setting pinmode as input


  Serial.begin(9600);

  pinMode(buzzer, OUTPUT);
  pinMode(trigpin, OUTPUT);
  pinMode(echopin, INPUT);
}
void loop()
{
    if ( analogRead(ldr) > 500)       //reading light intensity
      digitalWrite(bulb, 0);//turn OFF condition

    else
```

```
    digitalWrite(bulb, 1);//turn ON condition



digitalWrite(trigpin,LOW);
delayMicroseconds(2);
digitalWrite(trigpin,HIGH);
delayMicroseconds(10);
digitalWrite(trigpin,LOW);
sure = pulseIn(echopin,HIGH);
mesafe = (sure/2)/29.0;

if(mesafe <= 15)
{
 digitalWrite(buzzer,HIGH);
 delay(250);
 digitalWrite(buzzer,LOW);
 delay(125);
}
else if(mesafe <= 20)
{
 digitalWrite(buzzer,HIGH);
 delay(500);
 digitalWrite(buzzer,LOW);
 delay(250);
}
else if(mesafe <= 30)
{
 digitalWrite(buzzer,HIGH);
 delay(1000);
```

```
 digitalWrite(buzzer,LOW);
 delay(1000);
}
else
{
 digitalWrite(buzzer,LOW);
}
 Serial.print("uzaklik = ");
 Serial.print(mesafe);
 Serial.println("cm");
 delay(500);
}
```