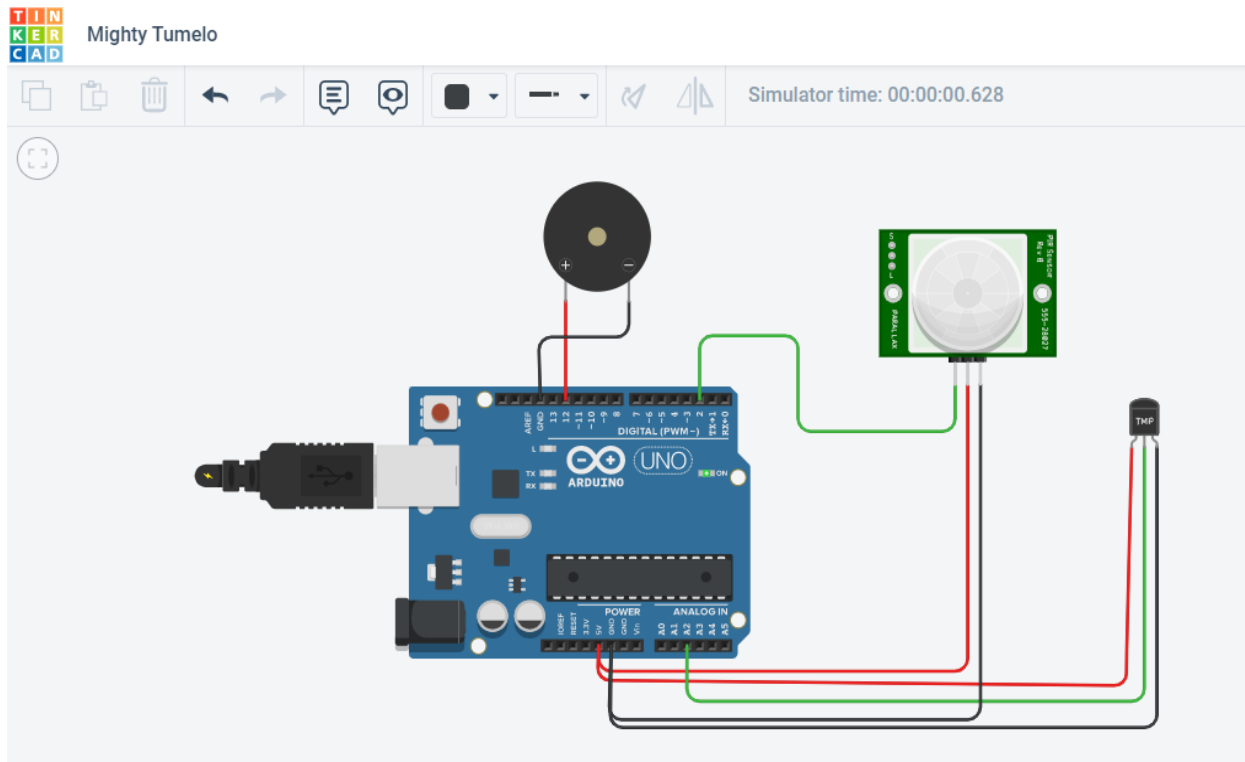


# Assignment 1

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**Sona College of Technology**



All changes saved

10:10.791

Code Stop Simulation Send To

1 (Arduino Uno R3)

```
1 void setup()
2 {
3   Serial.begin(9600);
4   pinMode(2,INPUT);
5   pinMode(12,OUTPUT);
6 }
7
8
9 void loop()
10 {
11   int motion=digitalRead(2);
12   if(motion==1){
13     Serial.println("Motion detected");
14     tone(12,10);
15     delay(1000);
16     noTone(12);
17     delay(1000);
18   }
19   else{
20     Serial.println("No motion");
21   }
22   double data=analogRead(A2);
23   double n=data/1024;
24   double volt=n*5;
25   double off=volt-0.5;
26   double temperature=off*100;
27   Serial.print("Temperature data: ");
```

Serial Monitor

All changes saved

15:375

Code Stop Simulation Send To

1 (Arduino Uno R3)

```
21 }
22 double data=analogRead(A2);
23 double n=data/1024;
24 double volt=n*5;
25 double off=volt-0.5;
26 double temperature=off*100;
27 Serial.print("Temperature data: ");
28 Serial.println(temperature);
29 if(temperature>60.00)
30 {
31   tone(12,100);
32   delay(500);
33   noTone(12);
34   delay(500);
35 }
36
37 }
```

Serial Monitor

No motion  
Temperature data: 24.71  
No motion  
Temperature data: 24.71  
No motion  
Temperature data: 24.71  
No motion  
Temperature

Send Clear

## CODE:

```
void setup()
{
  Serial.begin(9600);
  pinMode(2,INPUT);
  pinMode(12,OUTPUT);
}

void loop()
{
  int motion=digitalRead(2);
  if(motion==1){
    Serial.println("Motion detected");
    tone(12,10);
    delay(1000);
    noTone(12);
    delay(1000);
  }
  else{
    Serial.println("No motion");
  }
  double data=analogRead(A2);
  double n=data/1024;
  double volt=n*5;
  double off=volt-0.5;
  double temperature=off*100;
```

```
Serial.print("Temperature data: ");  
Serial.println(temperature);  
if(temperature>60.00)  
{  
    tone(12,100);  
    delay(500);  
    noTone(12);  
    delay(500);  
}  
  
}
```