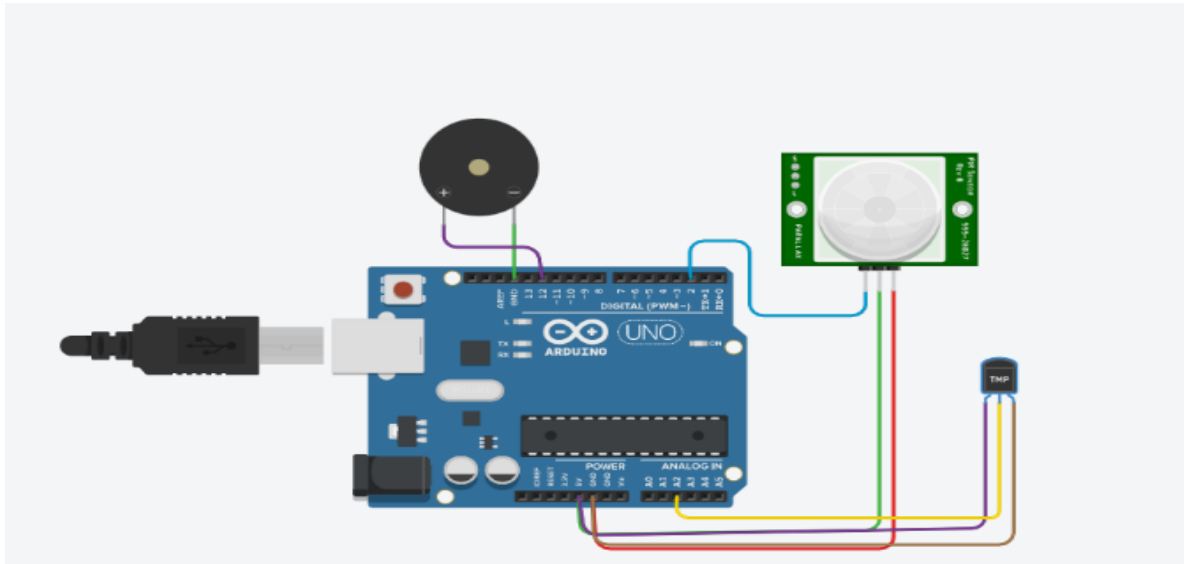


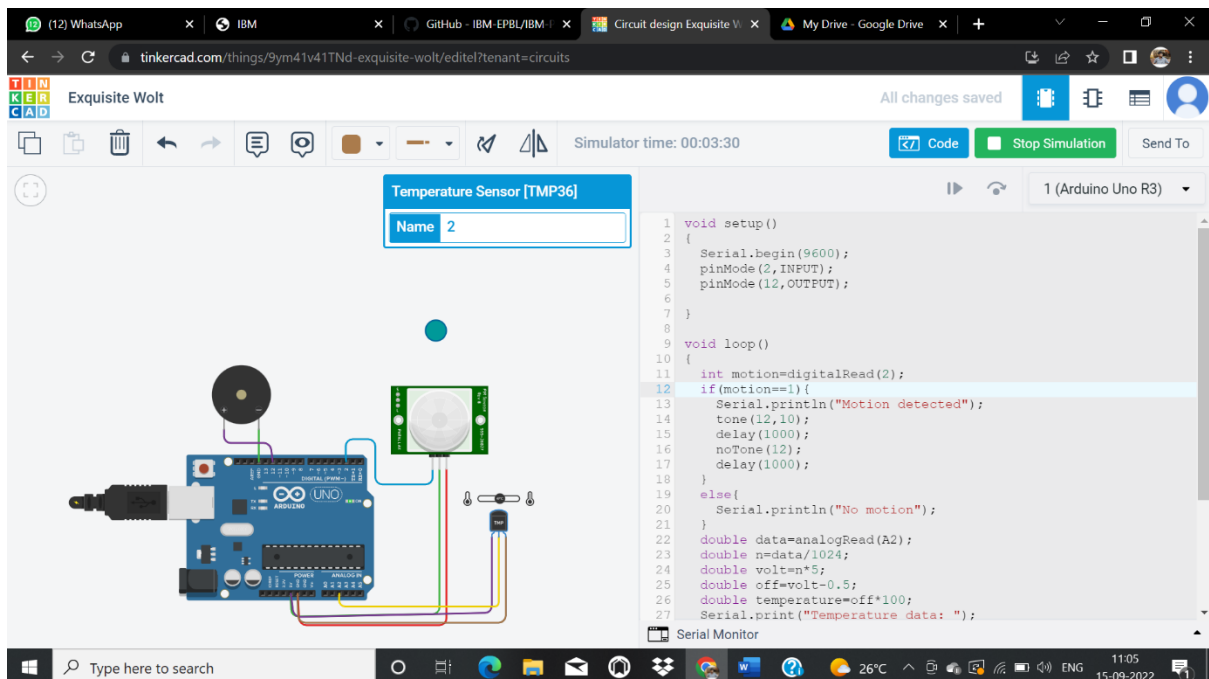
IBM ASSINGMENT 1

Name: JayaKumaar S

Circuit connection:



Output:



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);
}

}
```

Demo link:

<https://drive.google.com/file/d/1e4ZlpE4qgNZQgZijCK8cQH-yYJKAfQHYm/view?usp=sharing>