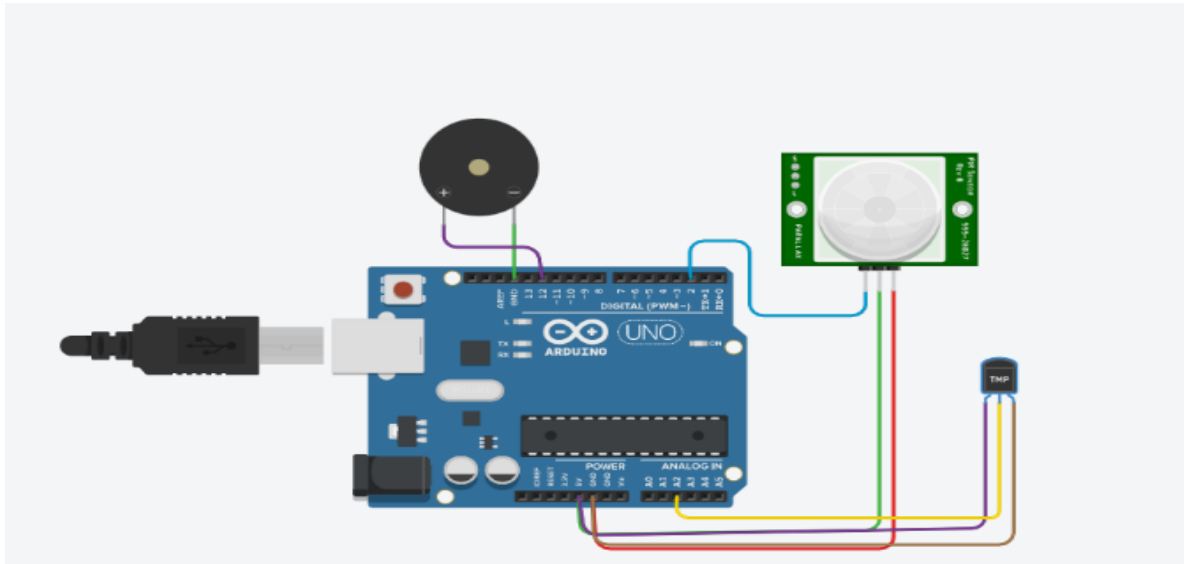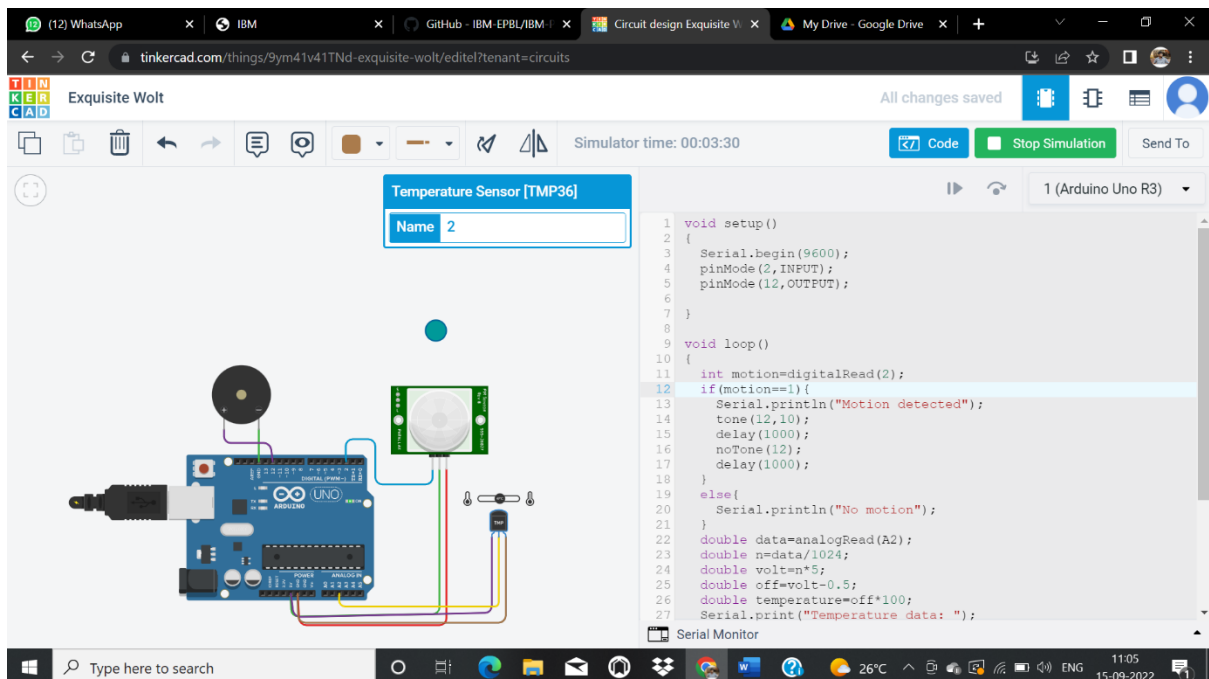# IBM ASSINGMENT 1

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: