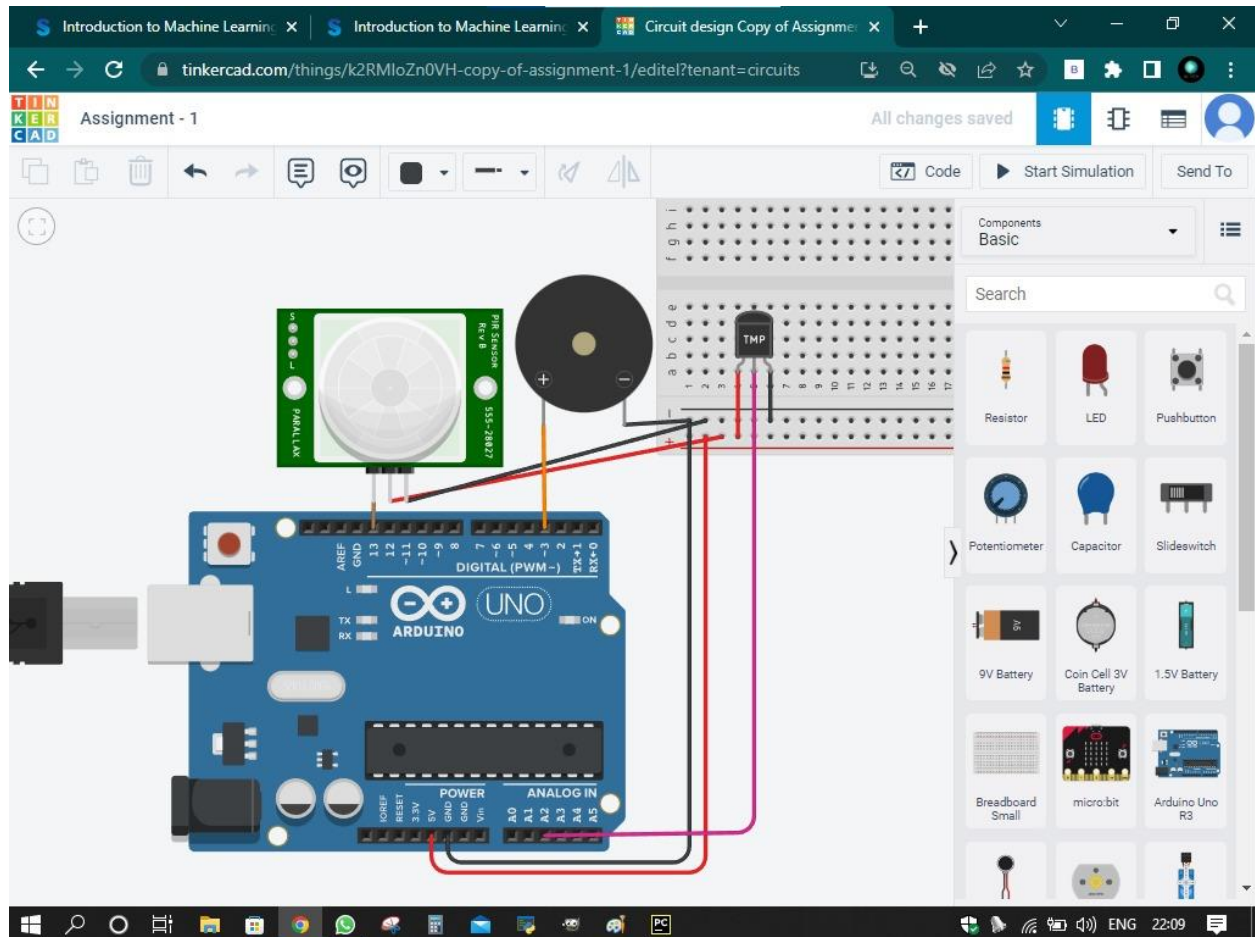


IOT ASSIGNMENT – 1

Circuit Connection:



CODE:

```
void setup()
{
  Serial.begin(9600);
  pinMode(3,OUTPUT);
  pinMode(13,INPUT);
}

void loop()
{
```

```
{  
  
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)  
{  
  
    digitalWrite(3,LOW);  
  
}  
  
else  
  
{  
  
    digitalWrite(3,HIGH);  
  
}  
  
}  
  
{  
  
int motion=digitalRead(13);  
  
if (motion==1){  
  
Serial.println("Motion is Detected ");  
  
    digitalWrite(3,HIGH);  
  
    delay(10000);  
  
}  
  
else{
```

```
Serial.println("No Motion");  
digitalWrite(3,LOW);  
}  
}  
}
```