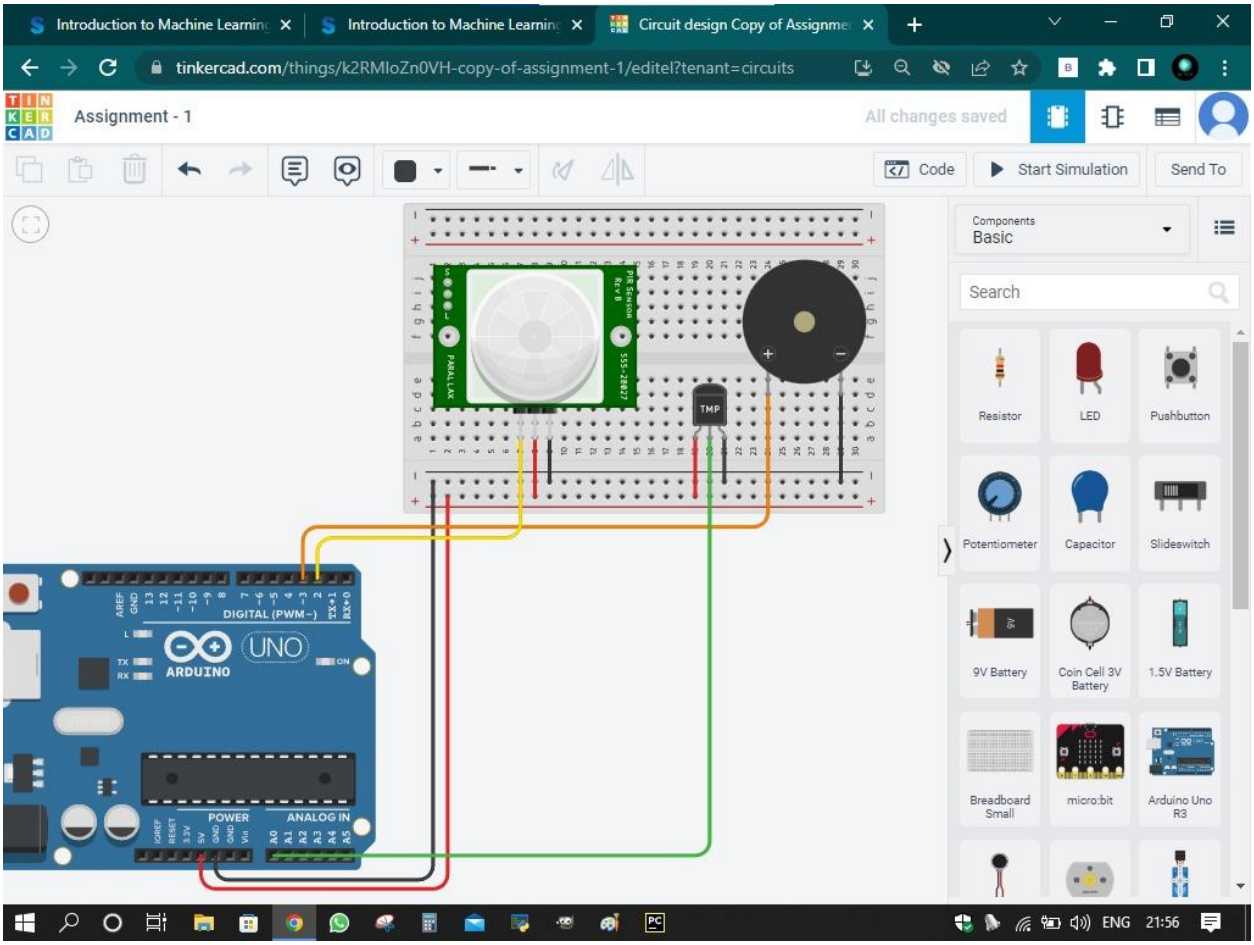
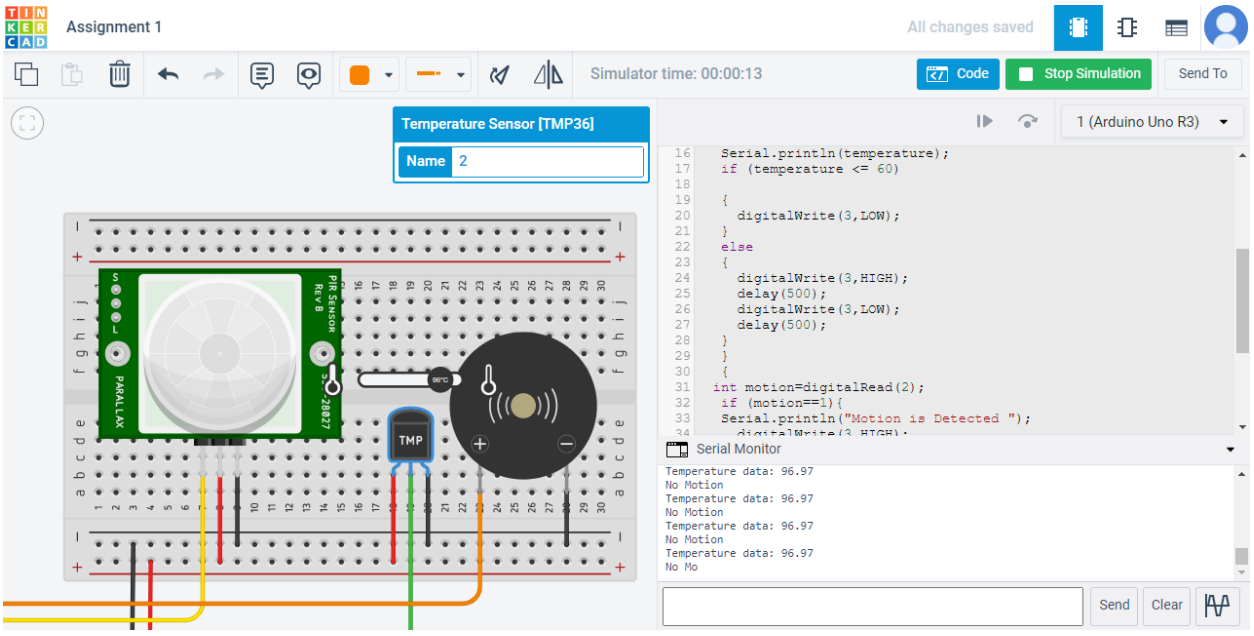
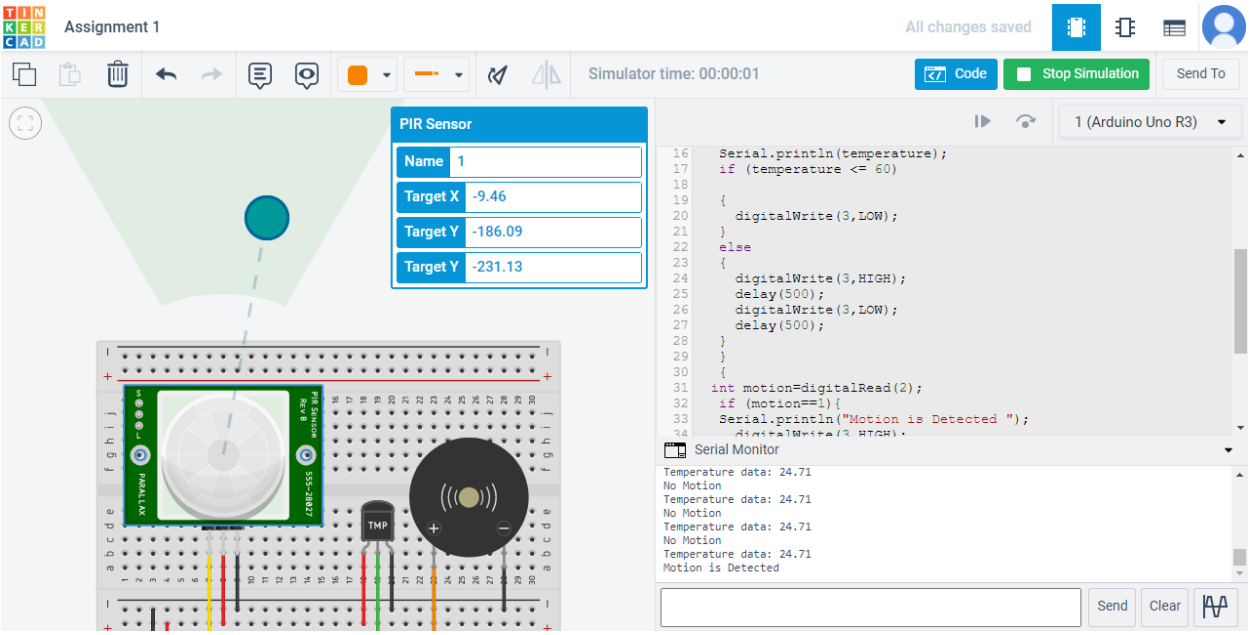
CIRCUIT:



CHANGING TEMPERATURE:



CHANGING POSITION IN PIR SENSOR:



PROGRAM:

```
void setup()

{

 Serial.begin(9600);

 pinMode(3,OUTPUT);

 pinMode(2,INPUT);

}

void loop()

{

 {

 double data=analogRead(A0);

 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);
   delay(500);
   digitalWrite(3,LOW);
   delay(500);
 }
 }
 {
int motion=digitalRead(2);
 if (motion==1){
 Serial.println("Motion is Detected ");
   digitalWrite(3,HIGH);
   delay(5000);
   digitalWrite(3,LOW);
   delay(500);
 }
```

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