CIRCUIT:
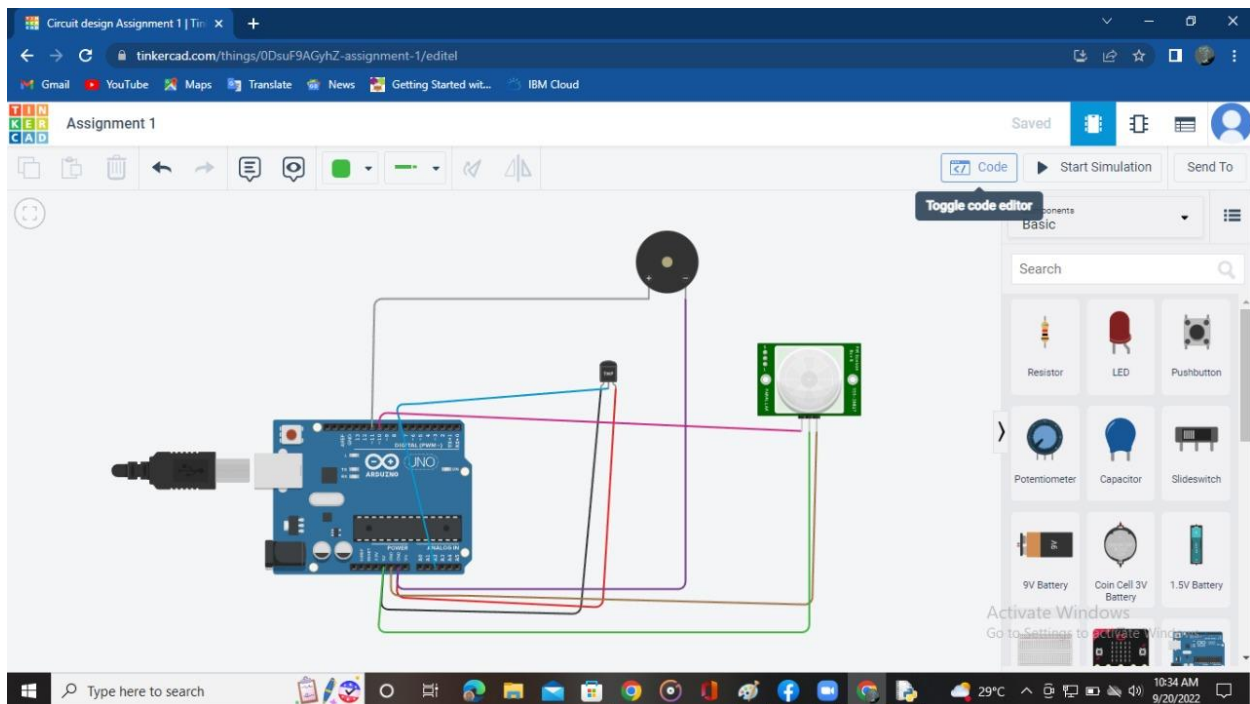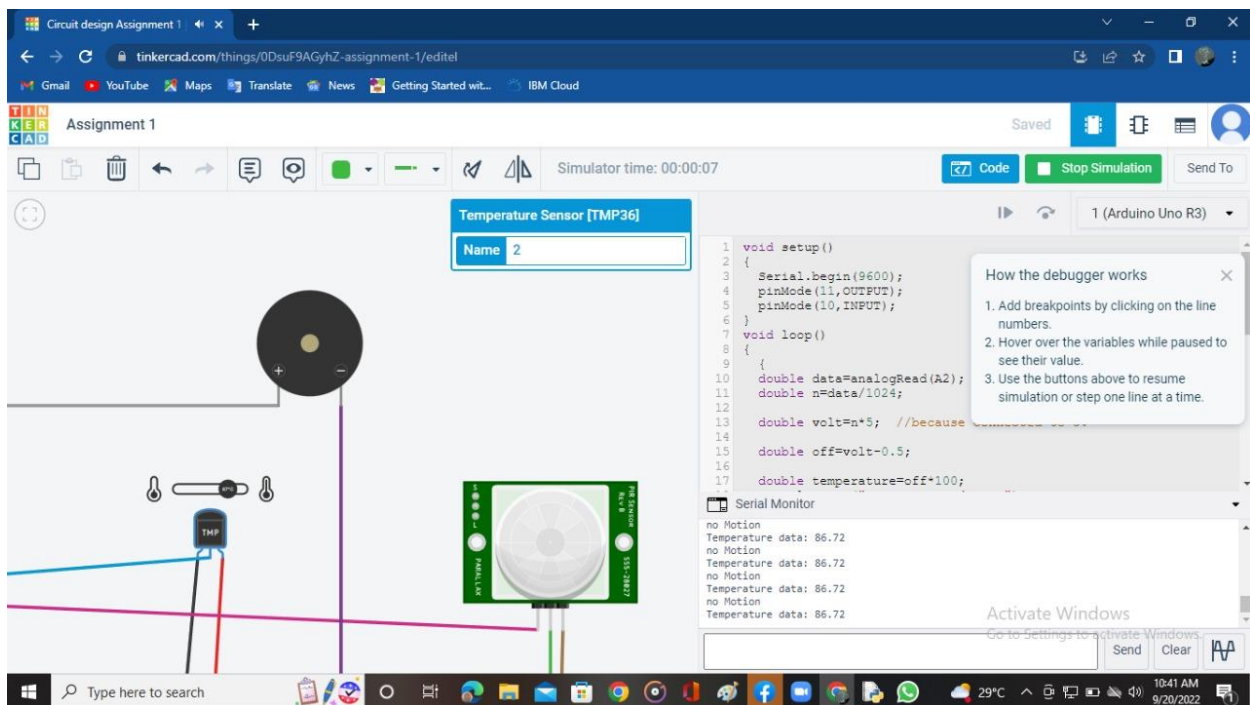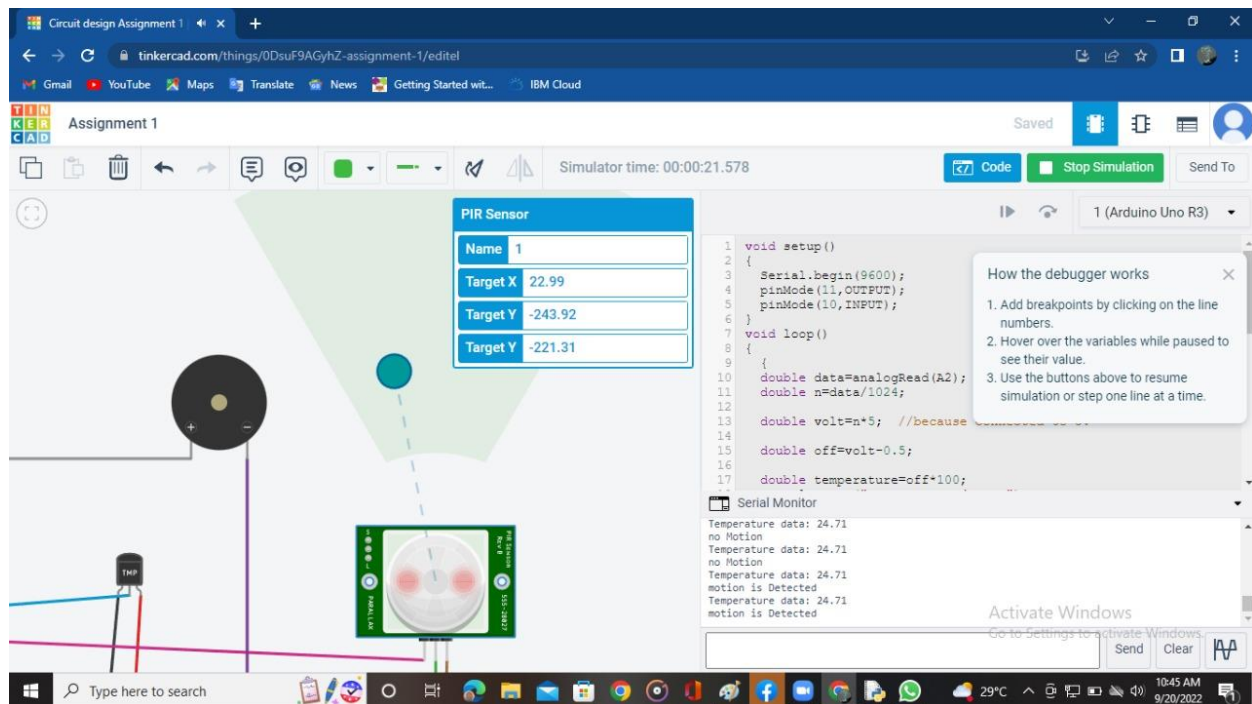

TEMPERATURE CHANGING:

MOITION DETECTING IN PIR SENSOR:

CODE:

```
void setup()

{

  Serial.begin(9600);

  pinMode(11,OUTPUT);

  pinMode(10,INPUT);

}

void loop()

{

 {

 double data=analogRead(A2);

 double n=data/1024;
```

```
double volt=n*5;  //because connected to 5v



double off=volt-0.5;



double temperature=off*100;

Serial.print("Temperature data: ");

Serial.println(temperature);

if (temperature <=60)

   {

 digitalWrite(11,LOW);

}

 else

{

digitalWrite(11,HIGH);

delay(1000);

digitalWrite(11,LOW);

delay(1000);

}

}

{

int motion=digitalRead(10);

  if (motion==1){

    Serial.println("motion is Detected ");

  digitalWrite(11,HIGH);
```

```
delay(5000);

digitalWrite(11,LOW);

delay(500);

        }
        else{

          Serial.println("no Motion");

        digitalWrite(11,LOW);

        }

        }

        }
```