ASSIGNMENT - 1

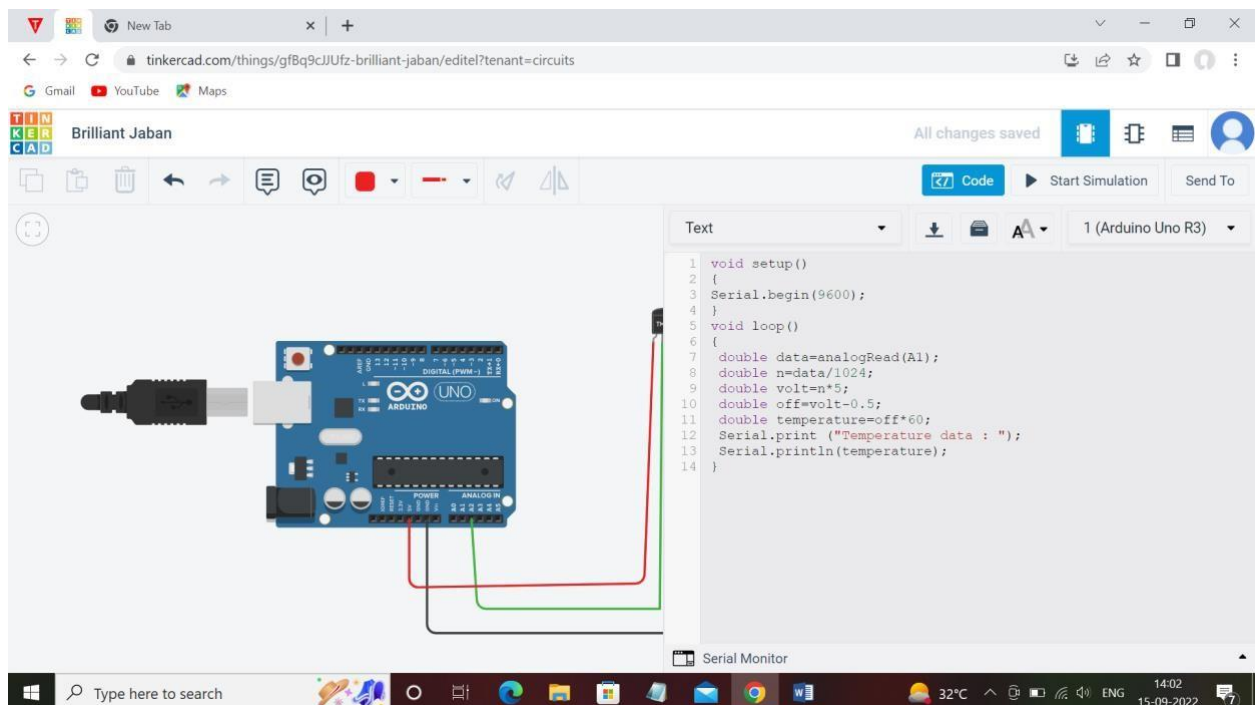| Team ID	PNT2022TMID27689
Name	Shalini S
Student Roll Number	311419104072
Maximum Marks	2 Marks

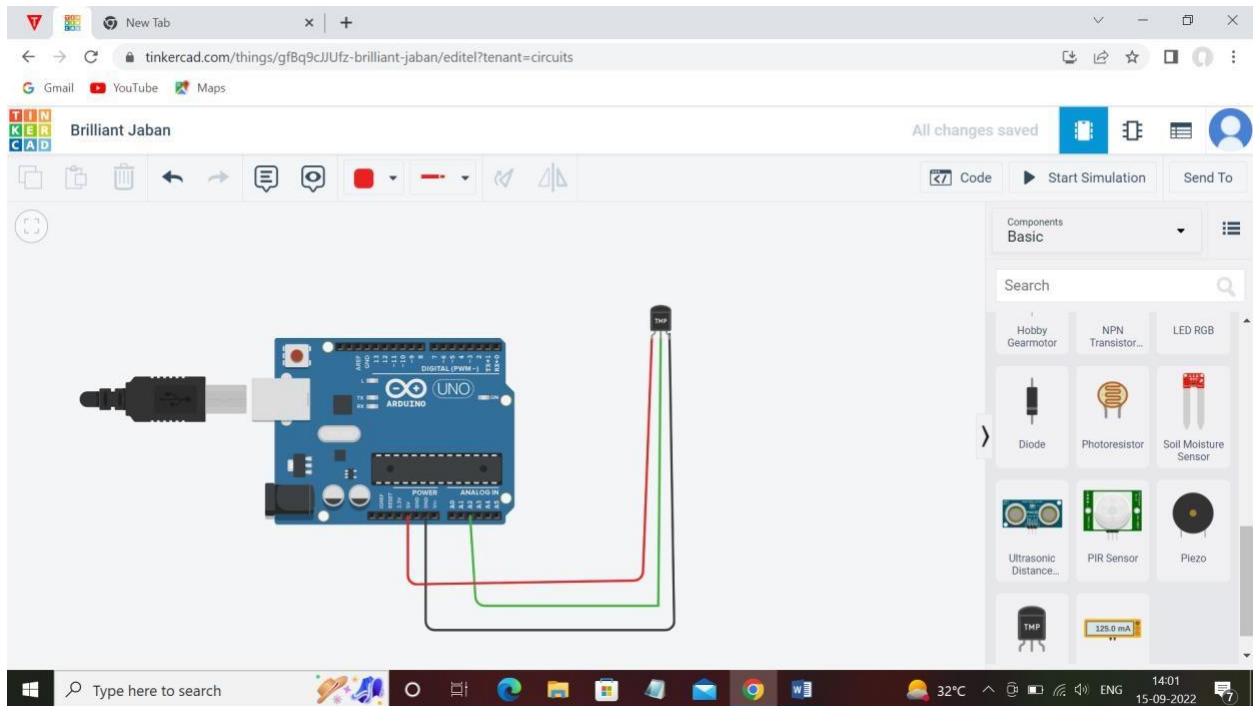## 1. Alarm should sound in one manner if Temperature is about 60 C

PROGRAM:

```
void setup()
{
Serial.begin(9600);
} void
loop()
{ double
data=analogRead(A1);
double n=data/1024;
 double volt=n*5;
```
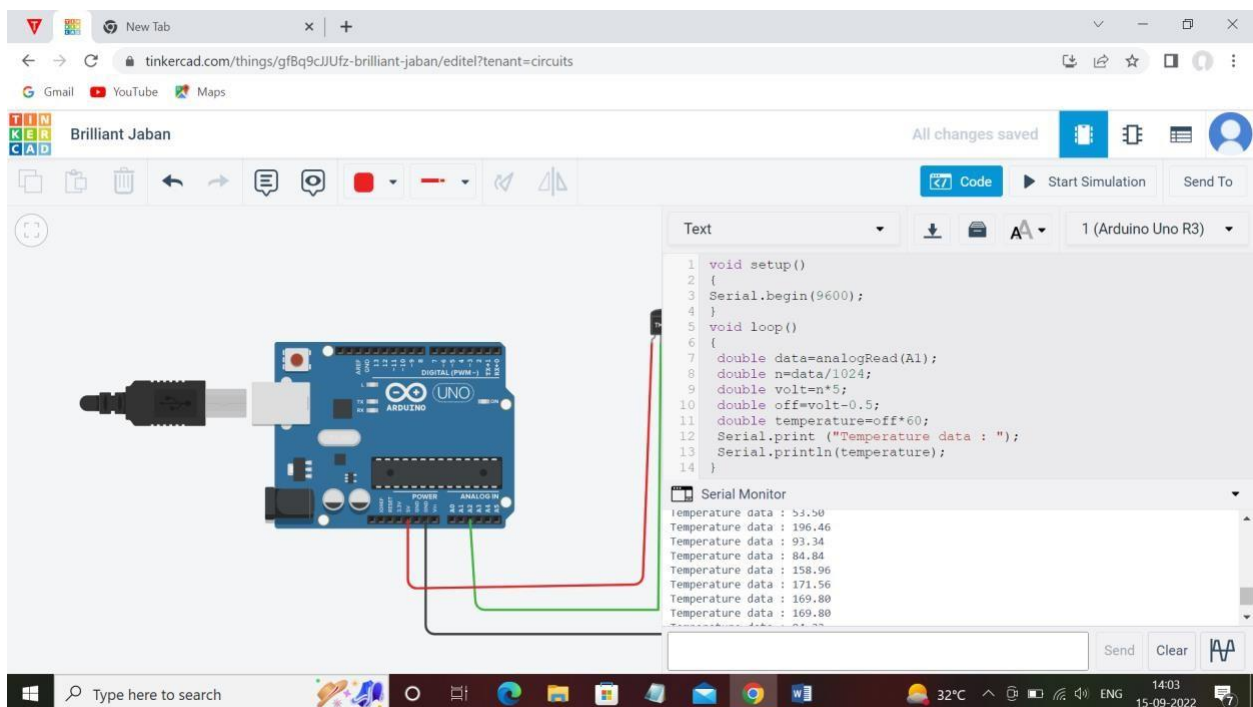
double off=volt-0.5;   double
temperature=off*60; Serial.print
("Temperature data : ");
 Serial.println(temperature);
}

CIRCUIT DIAGRAM:

OUTPUT:


```
1  void setup()
2  {
3  Serial.begin(9600);
4  }
5  void loop()
6  {
7    double data=analogRead(A1);
8    double n=data/1024;
9    double volt=n*5;
10   double off=volt-0.5;
11   double temperature=off*60;
12   Serial.print ("Temperature data : ");
13   Serial.println(temperature);
14 }
```

Serial Monitor

```
Temperature data : 53.50
Temperature data : 196.46
Temperature data : 93.34
Temperature data : 84.84
Temperature data : 158.96
Temperature data : 171.56
Temperature data : 169.80
Temperature data : 169.80
```

2. Alarm should sound in another frequency if motion is detected in PIR sensor
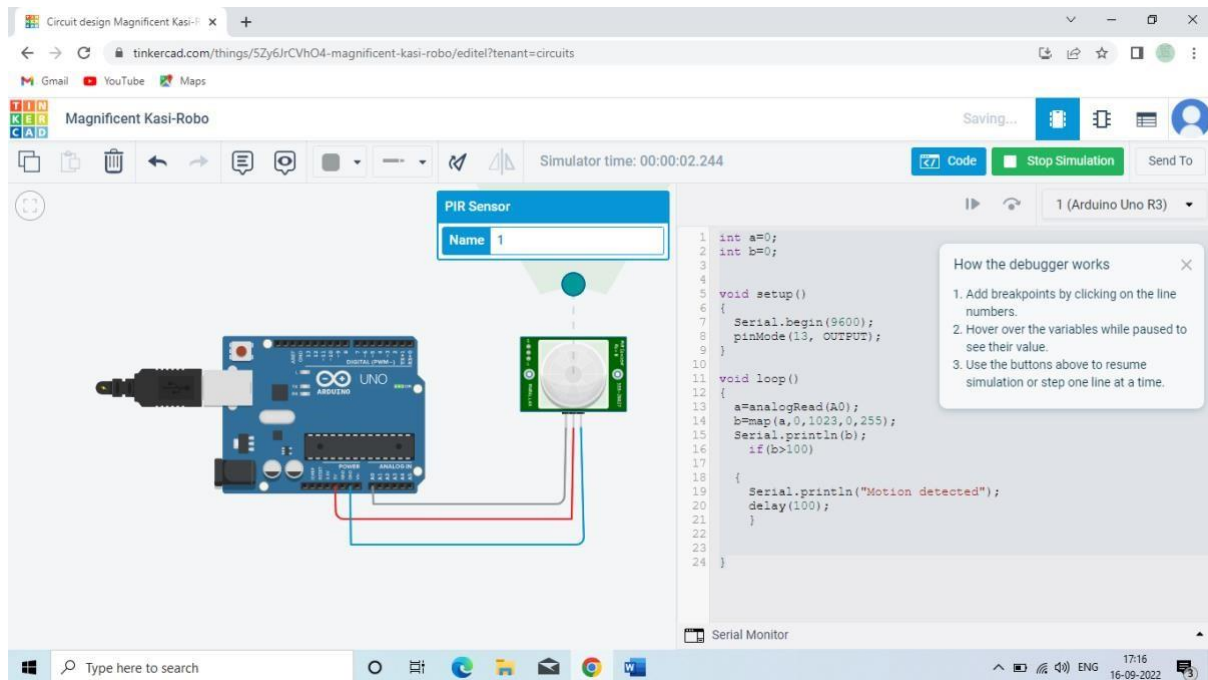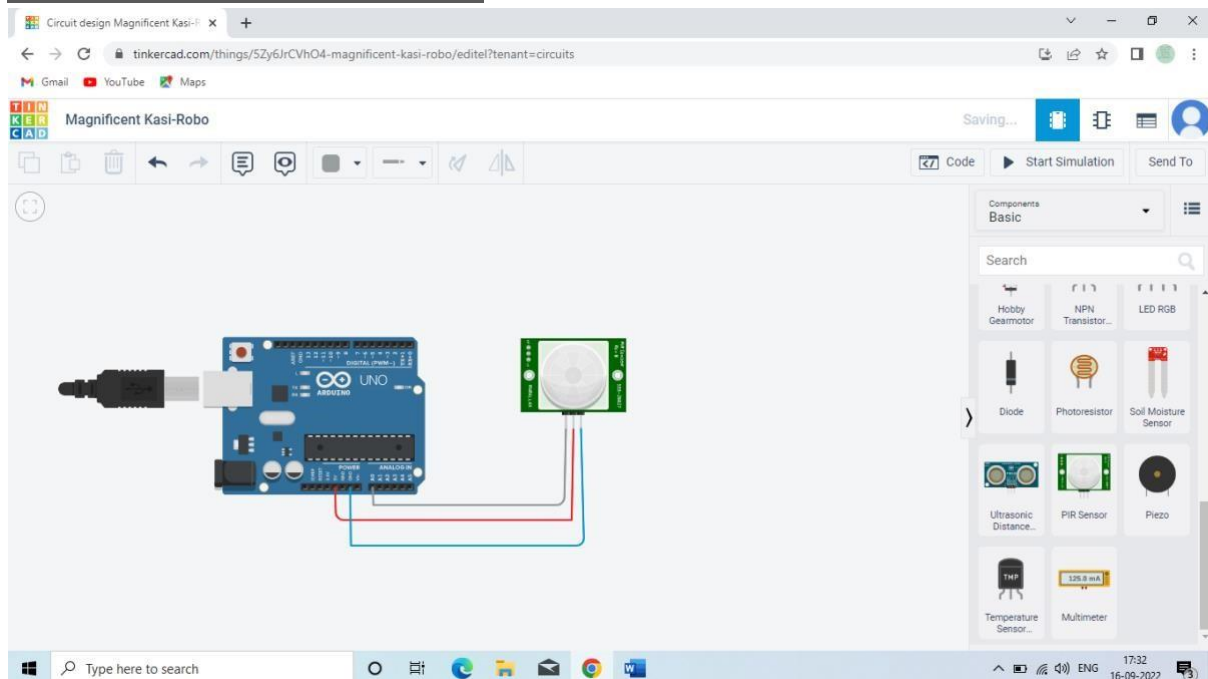
PROGRAM:

```
Int a=0;
Int b=0;

Void setup()
{
  Serial.begin(9600);
  pinMode(13, OUTPUT);
}  void

loop()

{
 a=analogRead(A0);
b=map(a,0,1023,0,255);
Serial.println(b);
  if(b>100)

 {
  Serial.println("Motion
detected");    delay(100);
  }


}
```

CIRCUIT DIAGRAM: