ASSIGNMENT - 1

Team ID	PNT2022TMID27689
Name	Saroja B
Student Roll Number	311419104069
Maximum Marks	2 Marks

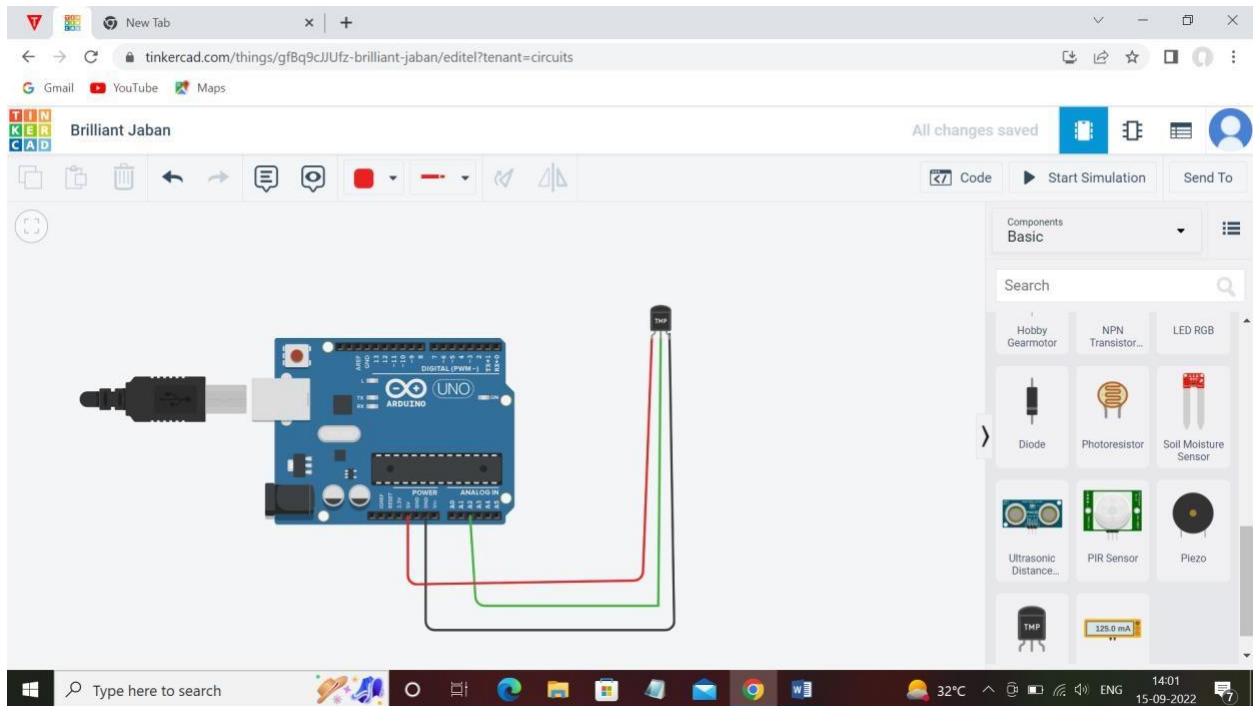## 1. Alarm should sound in one manner if Temperature is about 60 C

PROGRAM:

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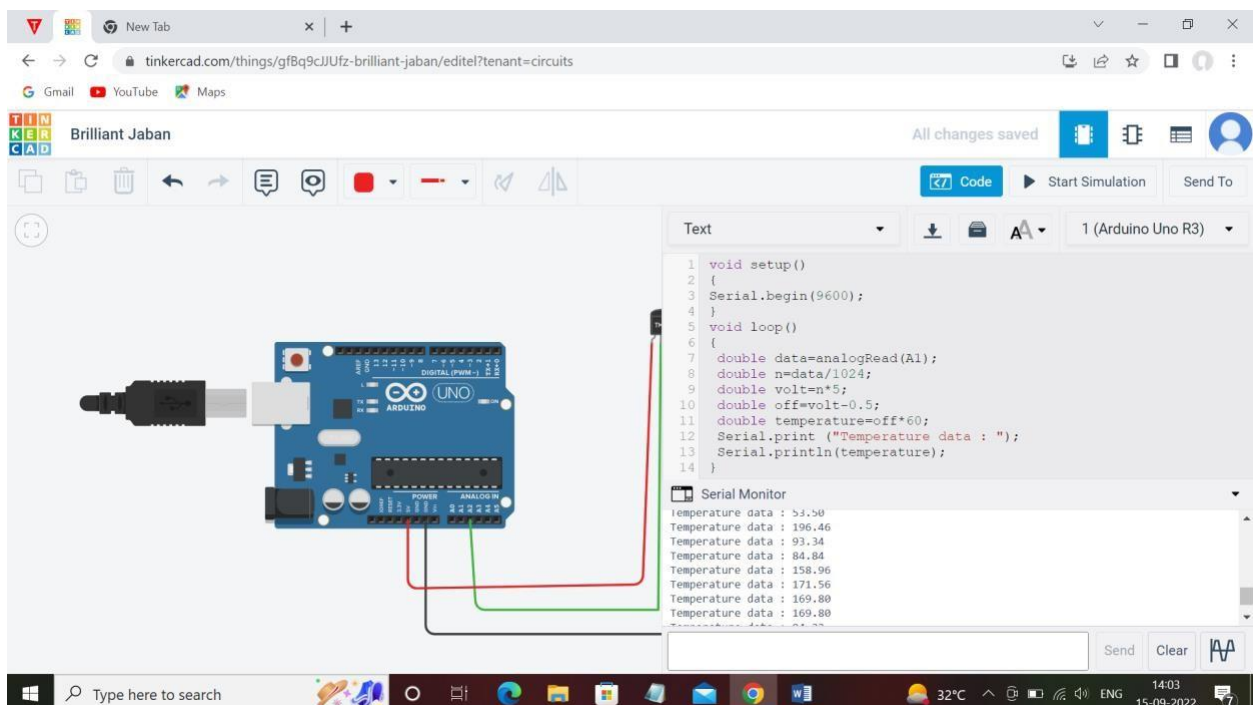
double off=volt-0.5;   double
temperature=off*60; Serial.print
("Temperature data : ");
 Serial.println(temperature);
}
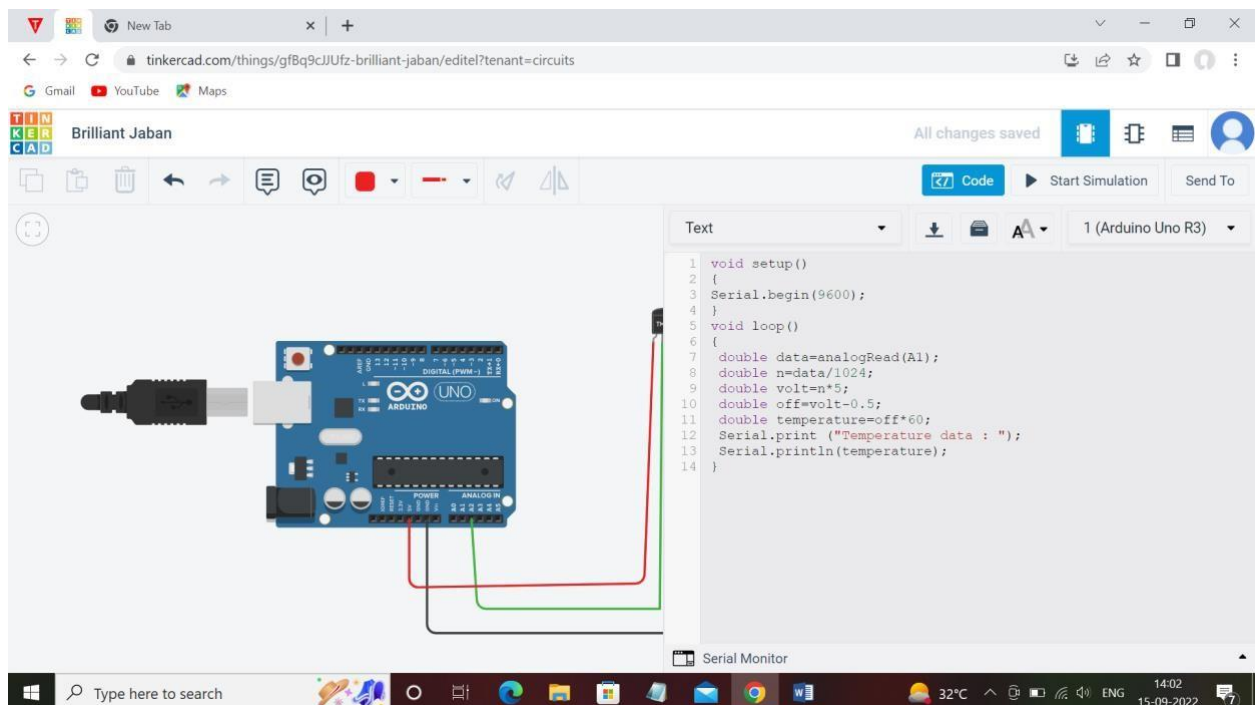
CIRCUIT DIAGRAM:

OUTPUT:

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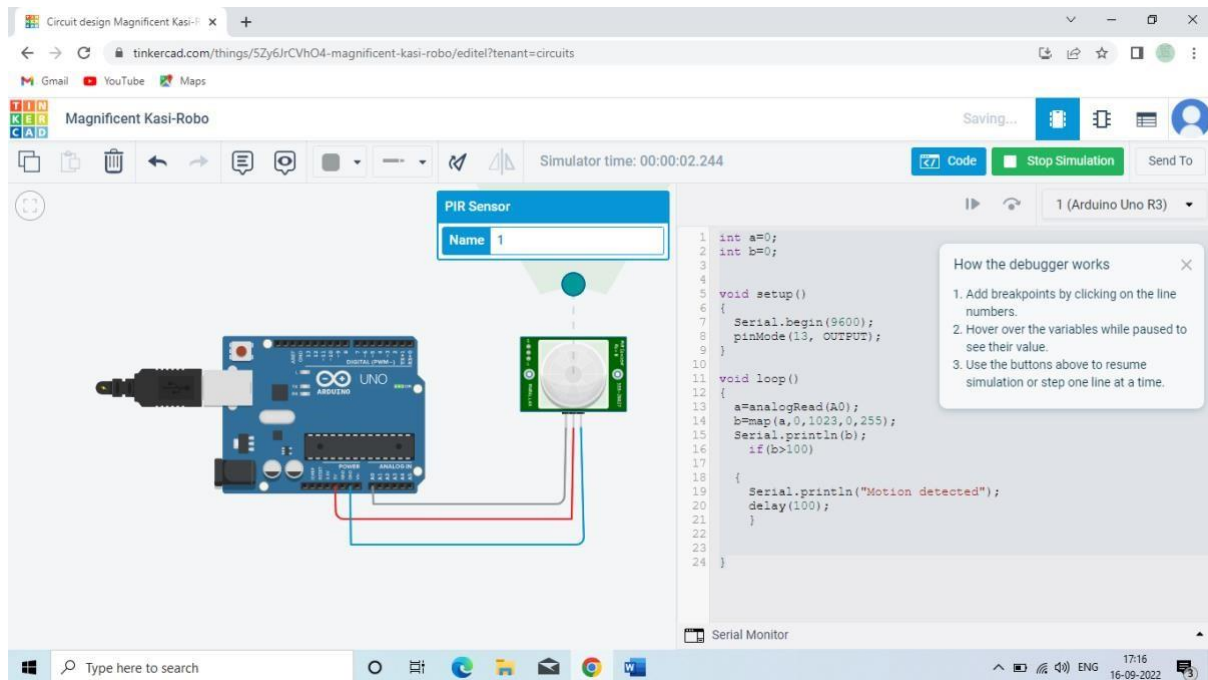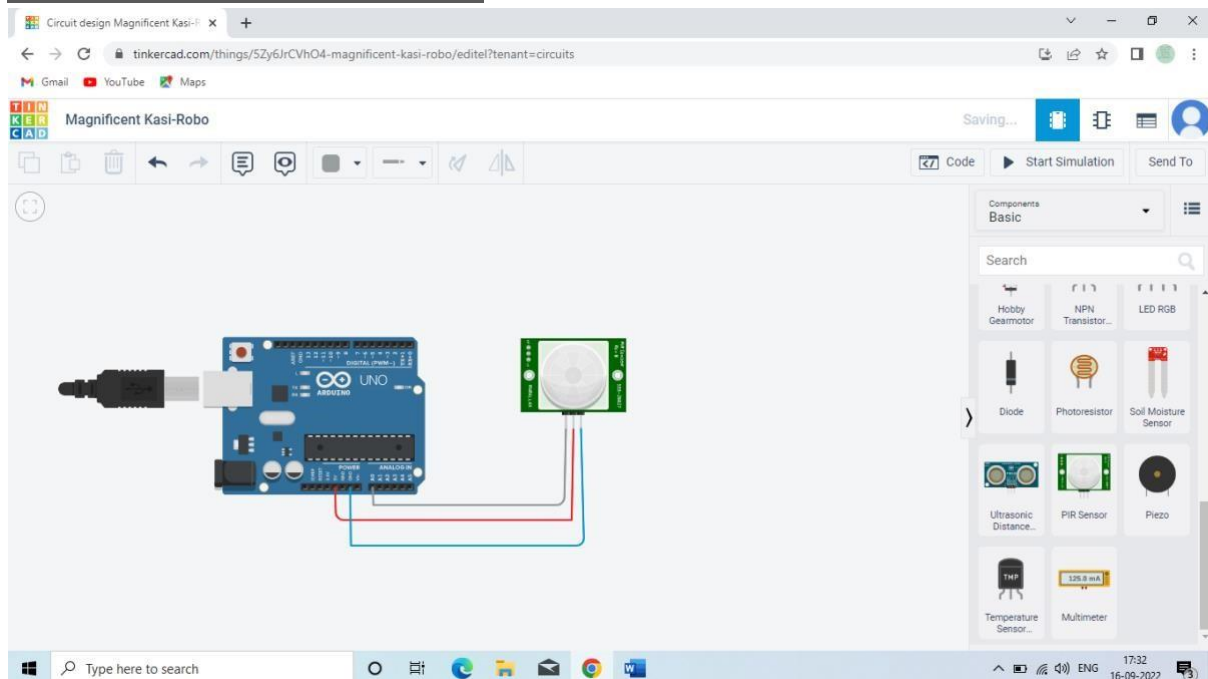
PROGRAM:

```
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:

OUTPUT:


```
Serial Monitor                                    ▼

Motion detected
253
Motion detected
253
Motion detected
253
Motion detected
253
Motion detected
```

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