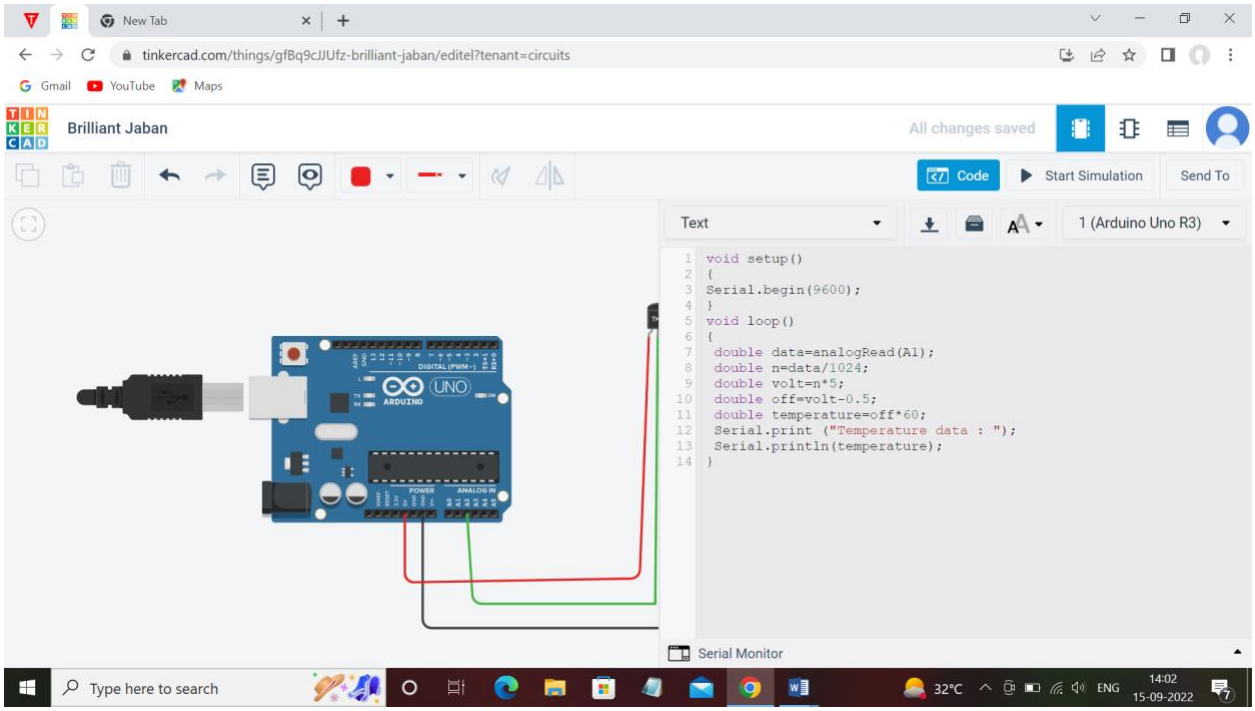
ASSIGNMENT 1

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);
}
```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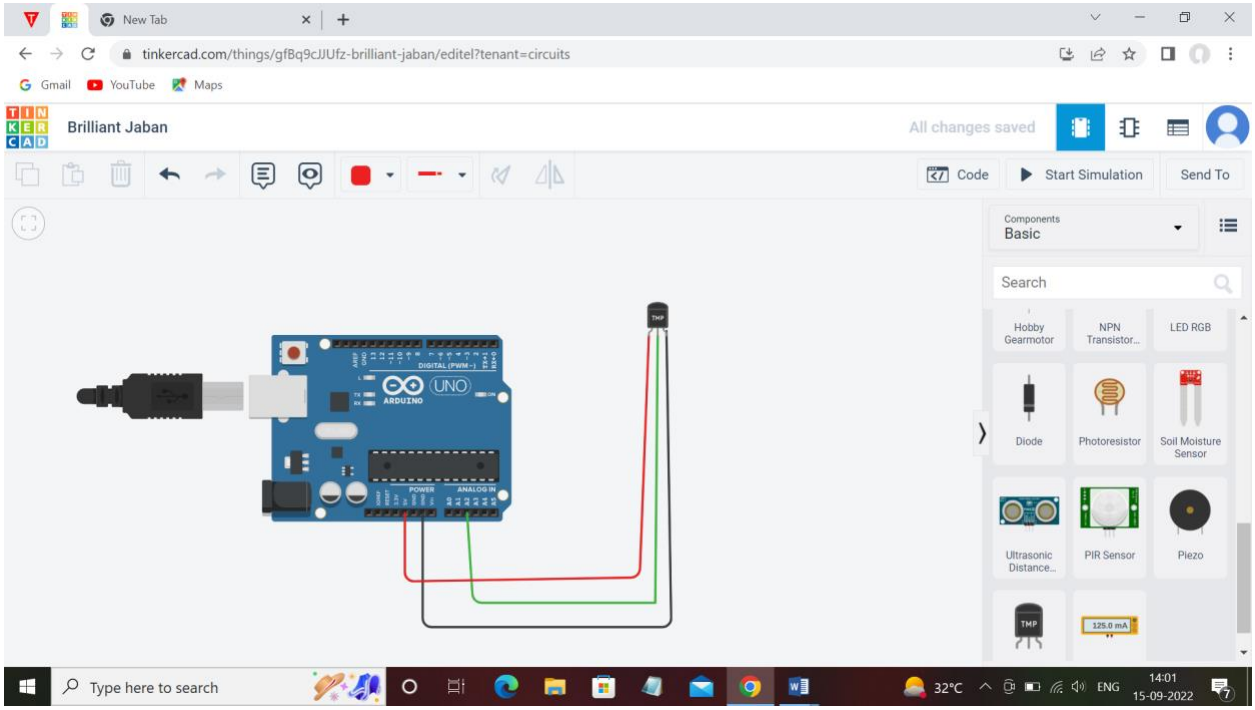
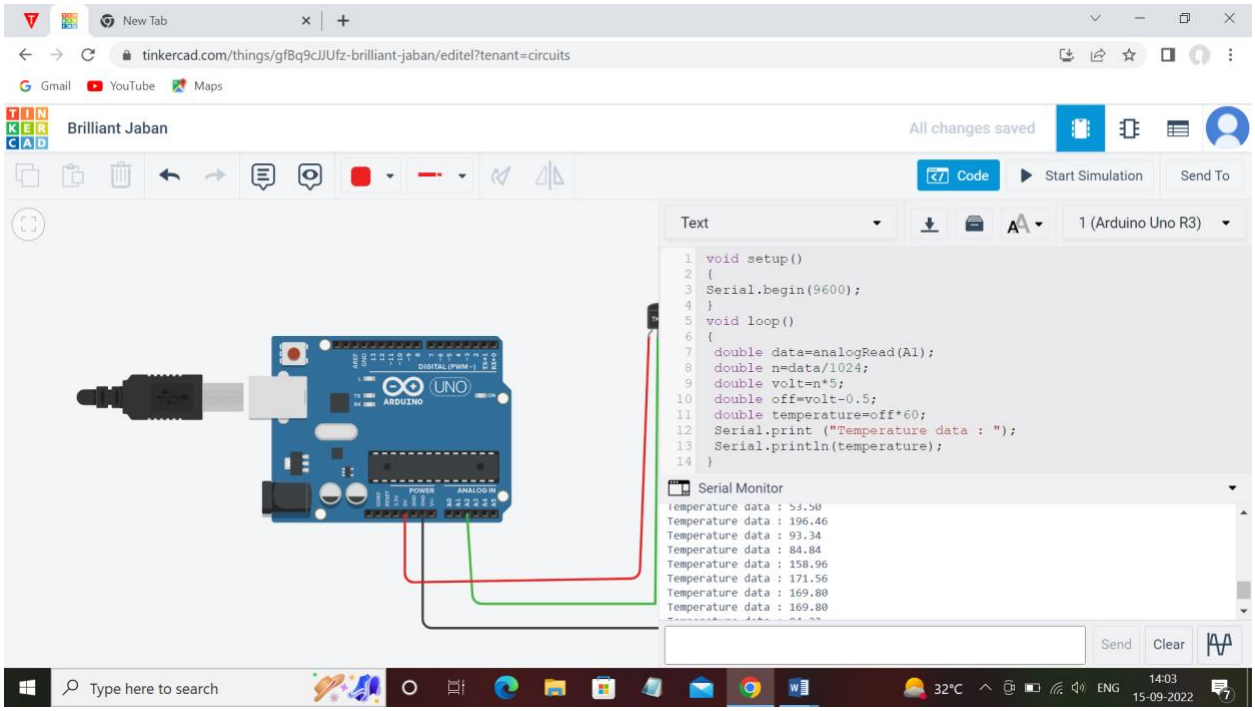
Gmail
YouTube
Maps
Brilliant Jaban
All changes saved
Code
Start Simulation
Send To
Text
1 (Arduino Uno R3)
void setup()
{
Serial.begin(9600);
}
void loop()
{
double data=analogRead(A1);
double n=data/1024;
double volt=n*5;
double off=volt-0.5;
double temperature=off*60;
Serial.print ("Temperature data : ");
Serial.println(temperature);
}
Serial Monitor
Type here to search
32°C
ENG
14:02
15-09-2022

CIRCUIT DIAGRAM:



OUTPUT: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Gmail
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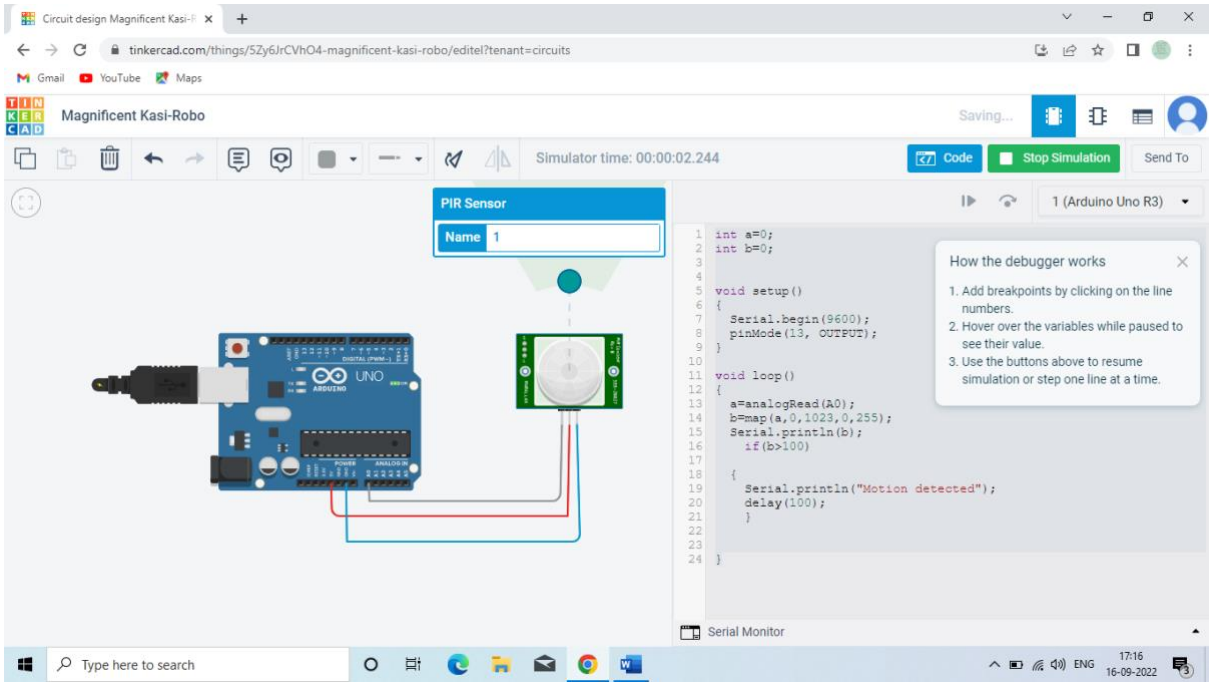
Maps
Brilliant Jaban
All changes saved
Code
Start Simulation
Send To
Text
1 (Arduino Uno R3)
void setup()
{
Serial.begin(9600);
}
void loop()
{
double data=analogRead(A1);
double n=data/1024;
double volt=n*5;
double off=volt-0.5;
double temperature=off*60;
Serial.print ("Temperature data : ");
Serial.println(temperature);
}
Serial Monitor
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
Send
Clear
Type here to search
32°C
ENG
14:03
15-09-2022

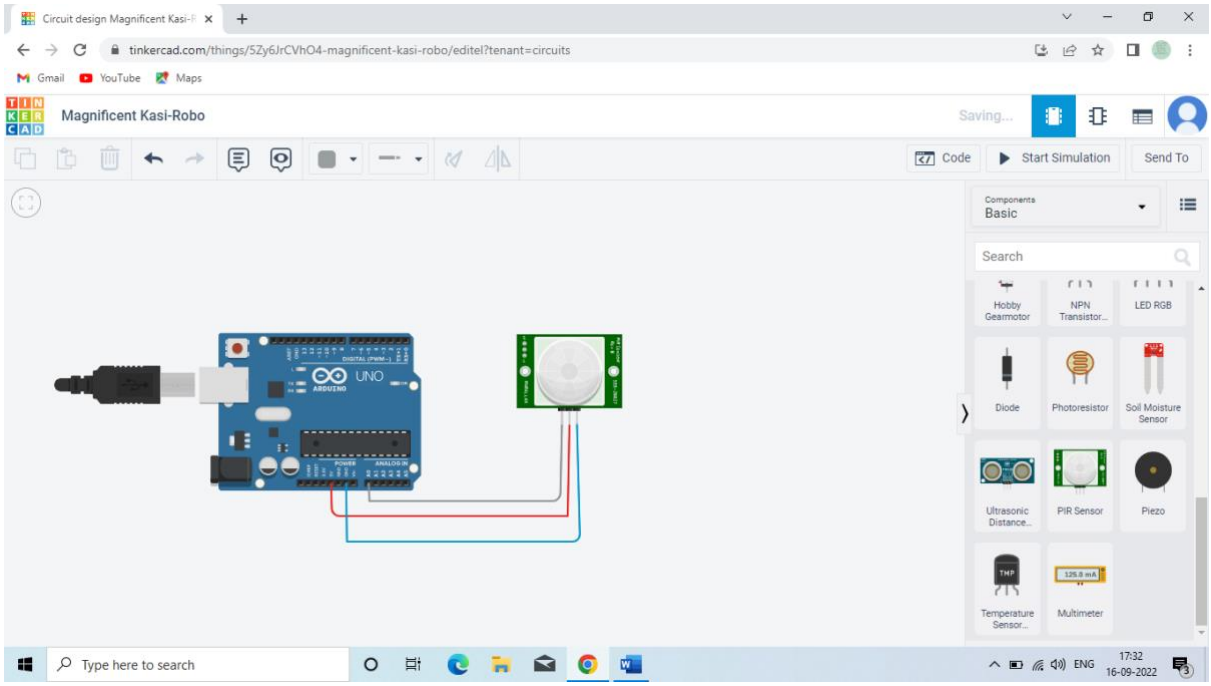
2. Alarm should sound in another frequency if motion is detected in PIR sensor

PROGRAM:

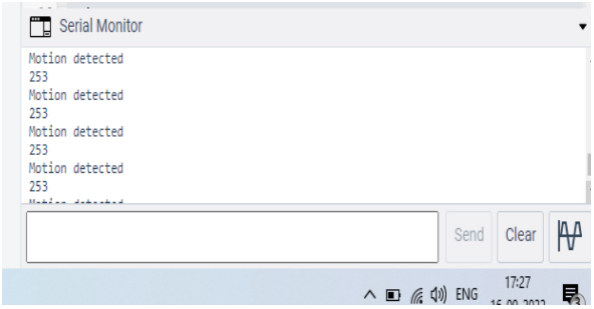
```
Int a=0;
Int b=0;

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
Send
Clear
ENG
17:27