Date	14 October 2022
Team ID	PNT2022TMID07810
Project Name	IoT Based Gadget child safety monitoring and notification
Name	GOKULRAJ R

Assignment -1

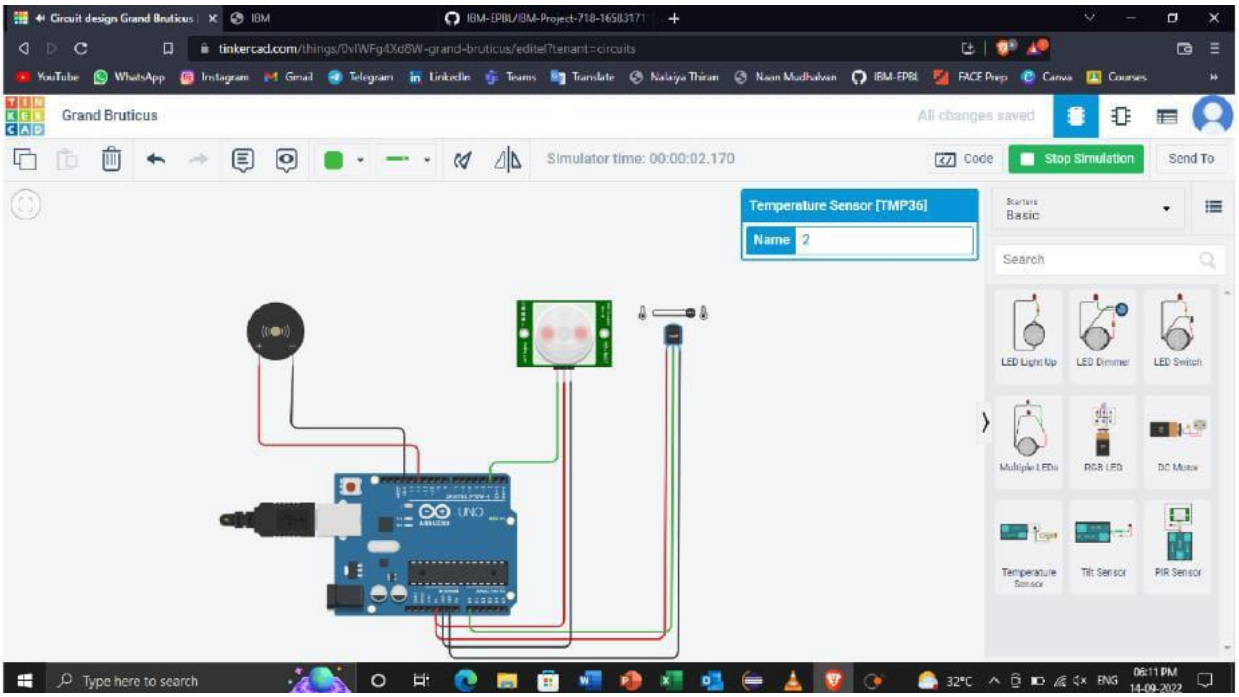
Build a smart home in Thinkercad with 2 sensors,an Led, buzzer and submit it.

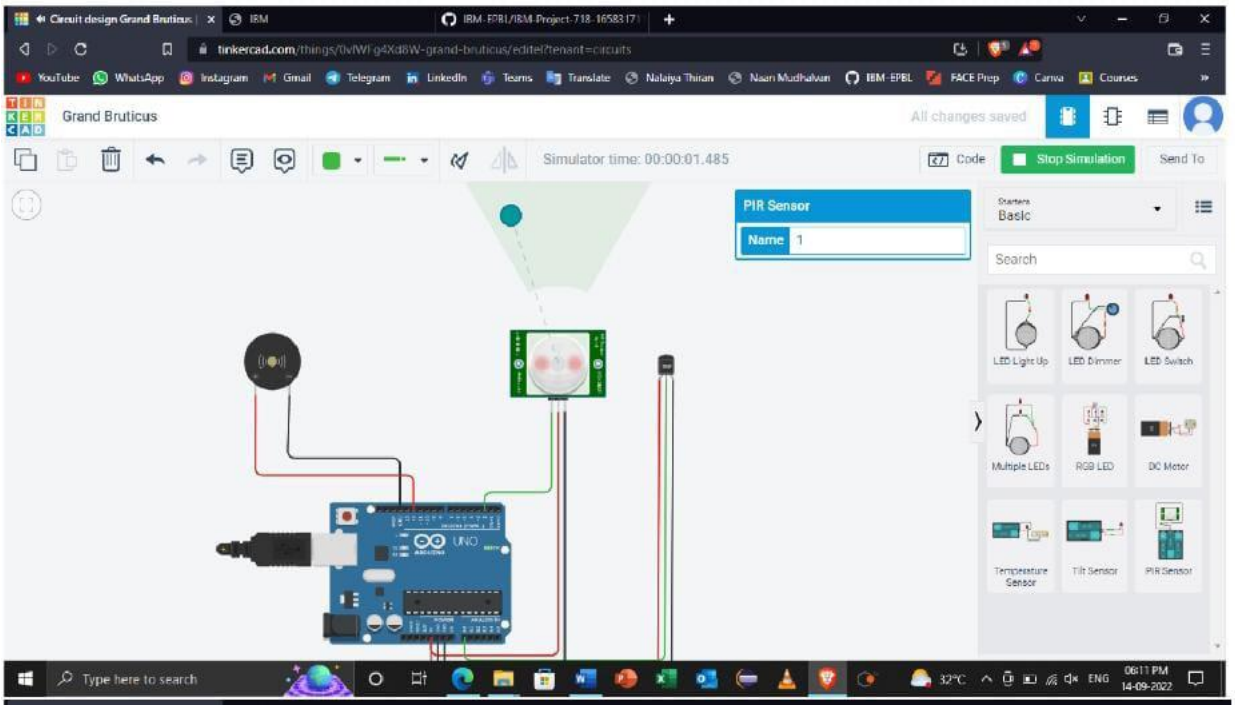
CODE:

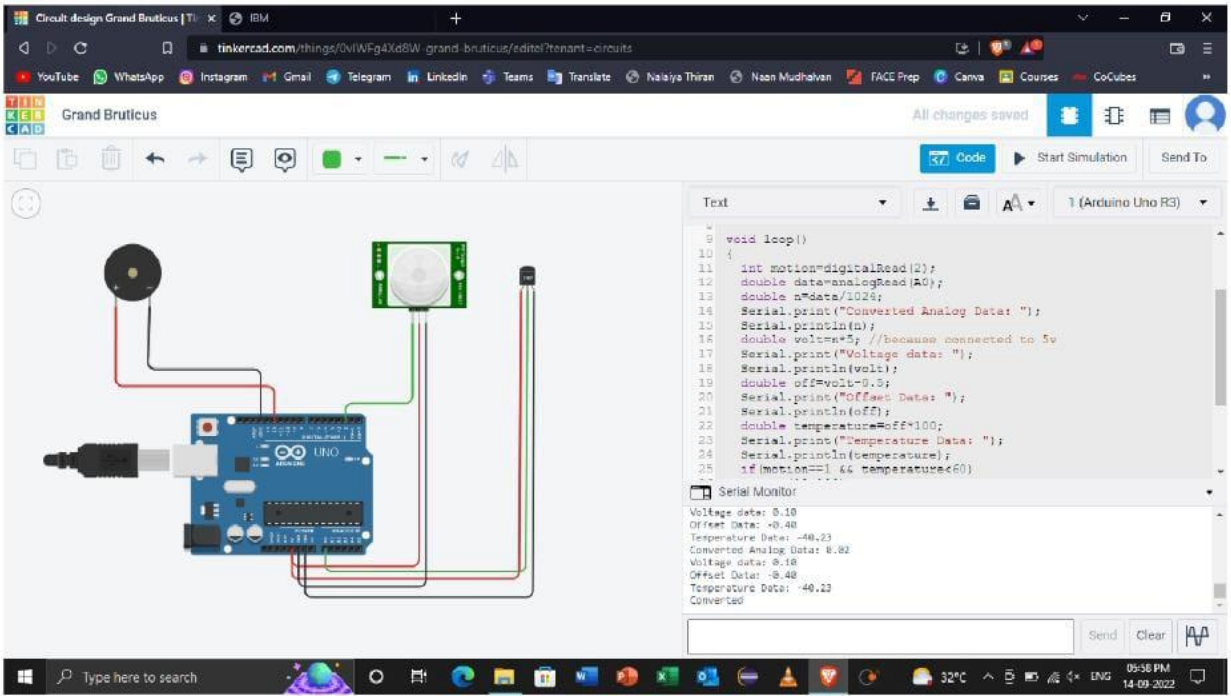
```
Void setup()

Serial.begin(9600); pinMode(12,OUTPUT). pinMode(2,INPUT);

Void loop()

Int motion-digitalRead(2):

Double data-analogRead(A0);

Double n=data/1024;

Serial.print("Converted Analog Data!");

Serial.println(n);

Double volt-n*5://because connected to 5v

Serial.print("Voltage data: ");
```

```
Serial.println(volt):

Double off-volt-0.5

Serial.print(“Offset Data: “);

Serial.printin(off);

Double temperature-off*100:

Serial.print(“Temperature Data: “);

Serial.println(temperature),

If(motion=1 && temperature<60)

Tone(12,100):

Else if(motion= 0 && temperature>60)

Tone(12,200);

Else if(motion=-1&& temperature>60)

noTone(12);

else if(motion == 0 && temperature<60)

noTone(12):
```

Output:


Grand Bruticus
Simulator time: 00:00:02.170
Code
Stop Simulation
Send To
Temperature Sensor [TMP36]
Name 2
Basic
Search
LED Light Up
LED Dimmer
LED Switch
Multiple LEDs
RGB LED
DC Motor
Temperature Sensor
Tilt Sensor
PIR Sensor
Type here to search
06:11 PM
14-09-2022


Grand Bruticus
Simulator time: 00:00:01.485
Code
Stop Simulation
Send To
PIR Sensor
Name 1
Basic
Search
LED Light Up
LED Dimmer
LED Switch
Multiple LEDs
RGB LED
DC Motor
Temperature Sensor
Tilt Sensor
PIR Sensor
Type here to search
06:11 PM
14-09-2022


Circuit design Grand Bruticus | Ti
IBM
tinkercad.com/things/0vIWFg4Xd8W-grand-bruticus/editel?tenant=circuits
YouTube
WhatsApp
Instagram
Gmail
Telegram
LinkedIn
Teams
Translate
Nalaiya Thiran
Naan Mudhalvan
FACE Prep
Canva
Courses
CoCubes
Grand Bruticus
All changes saved
Code
Start Simulation
Send To
Text
1 (Arduino Uno R3)
void loop()
{
int motion=digitalRead(2);
double data=analogRead(A0);
double n=data/1024;
Serial.print("Converted Analog Data: ");
Serial.println(n);
double volt=n*5; //because connected to 5v
Serial.print("Voltage data: ");
Serial.println(volt);
double off=volt-0.5;
Serial.print("Offset Data: ");
Serial.println(off);
double temperature=off*100;
Serial.print("Temperature Data: ");
Serial.println(temperature);
if(motion==1 && temperature<60)
Serial Monitor
Voltage data: 0.10
Offset Data: -0.40
Temperature Data: -40.23
Converted Analog Data: 0.02
Voltage data: 0.10
Offset Data: -0.40
Temperature Data: -40.23
Converted
Send
Clear
Type here to search
32°C
ENG
05:58 PM
14-09-2022