

PROGRAM:

```
void setup()  
{  
  Serial.begin(9600);  
  pinMode(12,OUTPUT);  
  pinMode(2,INPUT);  
}
```

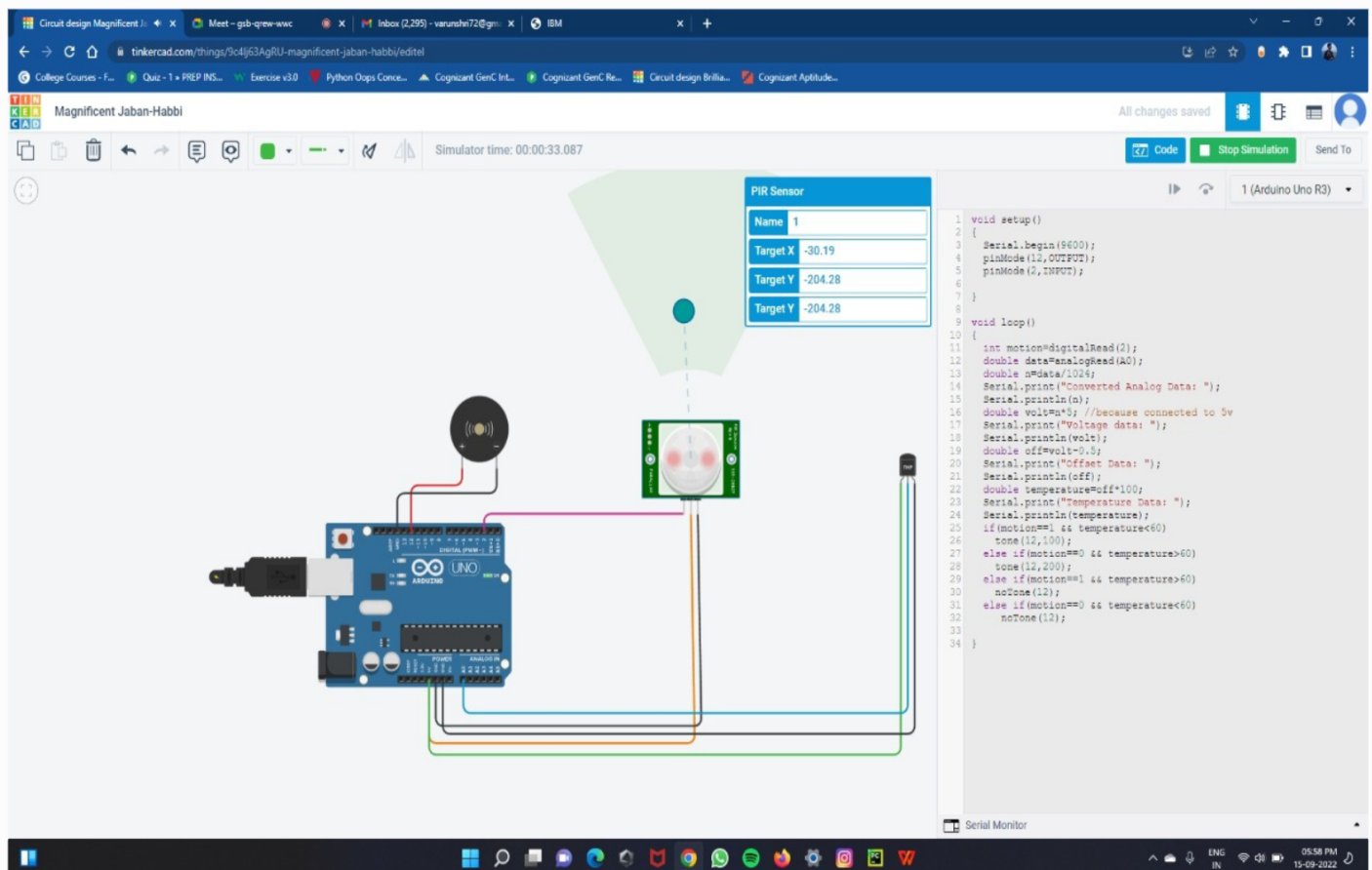
```
void loop()
{
  int motion=digitalRead(2);
  double data=analogRead(A0);
  double n=data/1024;
  Serial.print("Converted Analog Data: ");
  Serial.println(n);
  double volt=n*5; //because connected to
5v
  Serial.print("Voltage data: ");
  Serial.println(volt);
  double off=volt-0.5;
  Serial.print("Offset Data: ");
  Serial.println(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:



Circuit design Magnificent Jaban: x Meet - gsb-qrew-wwc x Inbox (2,295) - varunshi72@gmail.com x IBM x +

tinkercad.com/things/9c4j63AgfU-magnificent-jaban-habbi/edit#t=

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Magnificent Jaban-Habbi

All changes saved

Code Stop Simulation Send To

Temperature Sensor [TMP36]
Name 2

Components Basic

Search

Resistor LED Pushbutton

Potentiometer Capacitor Slidewitch

9V Battery Coin Cell 3V Battery 1.5V Battery

Breakboard Small micro:bit Arduino Uno R3

Vibration Motor DC Motor Micro Servo

Hobby Gearmotor NPN Transistor... LED RGB

Simulator time: 00:00:11

Windows taskbar: 05:55 PM 15-09-2022