## GOVERNMENT COLLEGE OF ENGINEERING, BODINAYAKKANUR

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QN:Build a python code, assume u get temperature and humidity values (generated with random function to a variable) and write a condition to continuously detect alarm in case of high temperatue.

```
Arduino code:
#include<dht.h>
dht DHT;
#define DHT11_PIN 4
Int temp;
Int hum;
Int buzzer=13;
Void setup()
  Serial.begin(9600);
}
Void loop()
{
    int chk=DHT.read(DHT11_PIN);
   temp=DHT.temperature;
   hum=DHT.humidity;
   Serial.print(temp);
   Serial.print("x");
  Serial.println(hum);
```

```
delay(2000);
  if(temp > = 60)
  {
        digitalWrite(13,HIGH);
        delay(500);
        digitalWrite(13,LOW);
        delay(500);
}
else{
        delay(1000);
}
}
Python Code:
import serial
import time
import schedule
def main_func();
      arduino=serial.Serial('com3',9600)
      print('established serial connection to arduino')
      arduino_data=arduino.readline()
      decoded_values=str(arduino_data[0:len(arduino_data)].decode("utf-8))
      list values=decoded values.split('x')
     for item in list_values:
          list_in_floats.append(float(item))
    print('collected readings from arduino:')
```

```
arduino_data=0
list_in_floats.clear()
list_values.clear()
arduino.close()
print('connection closed')
print('<----->')
```