GOVERNMENT COLLEGE OF ENGINEERING, BODINAYAKKANUR

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('<------')
```