

Assignment 2

Question:

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 temperature.

Program:

```
import random as r                                #importing random module as r for generating random values from 0 to 99

class Measurement:                                #created a Measurement class for reusability and cleanliness of code
    def __init__(self, temperature, humidity):    #Passed two methods temperature and humidity
        self.temperature = temperature
        self.humidity = humidity

while(True):                                     #while loop for continuous monitoring of temperature and humidity value

    random_temp_value = int(r.randint(0,99))      #Generating value from 0 to 99 for temperature
    random_hum_value = int(r.randint(0,99))       #Generating value from 0 to 99 for humidity

    class_init = Measurement(random_temp_value , random_hum_value) #calling class Measurement with two arguments

    if(class_init.temperature >= 40 or class_init.humidity >= 70): #Control flow
        print("Alarm is HIGH!!")                  # Alarm is HIGH!! when both the condition are true
    else:
        print("Alarm is LOW")                     #Alarm is LOW when both the condition are false
```

Output:

