

**Assignment -2**  
Python Programming

|                     |                   |
|---------------------|-------------------|
| Assignment Date     | 19 September 2022 |
| Student Name        | Ms.Kogila         |
| Student Roll Number | 422119106003      |
| Maximum Marks       | 2 Marks           |

**Question:**

Build a python code ,Assume you get temperature and humidity values (generated with random function to a variable) and write a condition to continuously detect alarm in case high temperature .

**Solution:**

```
import random
temp=random.randint(1,100)
humty=random.randint(1,100)
print(temp and humty);

if ((temp<50)&(humty<40)):
    print("Temperature and Humidity is normal :")

    print("Alarm off")

elif((temp<50)&(humty>40)):
    print("Temperature is low")
    print("Humidity is high")
    print("Alarm off")

elif((temp>50) & (humty<40)):
    print("Temperature is high:")
    print("Humidity is normal")
    print("Alarm on")

elif((temp>80) & (humty>80)):
    print("Temperature and Humidity is very high")
    print("Alarm on")
```

Python



```
1 import random
2 temp=random.randint(1,100)
3 humty=random.randint(1,100)
4 print(temp and humty);
5
6
7 ▼ if ((temp<50)&(humty<40)):
8     print("Temperature and Humidity is
      normal :")
9
10    print("Alarm off")
11
12 ▼ elif((temp<50)&(humty>40)):
13     print("Temperature is low")
14     print("Humidity is high")
15     print("Alarm off")
16
17 ▼ elif((temp>50) & (humty<40)):
18     print("Temperature is high:")
19     print("Humidity is normal")
20     print("Alarm on")
21
22 ▼ elif((temp>80) & (humty>80)):
23     print("Temperature and Humidity is
      very high")
24
25     print("Alarm on")
```

```
39
Temperature is high:
Humidity is normal
Alarm on
✖
```