

## ASSIGNMENT-2

**Name: Shree Varshan T**

**Reg no:6113191031095**

**Question-1: 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.**

Python code:

```
import random
import time
while (1):
    temp = random.randint(0, 100)
    humidity = random.randint(0, 100)
    if temp>60 and humidity>60:
        print("ALERT!! Detected temperature: "+str(temp)+"°C"+" "+" Detected
humidity: "+str(humidity))
    elif temp > 60:
        print("ALERT!! Detected temperature: " + str(temp) + "°C")
    elif humidity > 60:
        print("ALERT!! Detected humidity: "+str(humidity))
    time.sleep(1)
```

The image shows a Python IDE window titled 'pythonProject - main.py'. The editor contains the following code:

```
1 import random
2 import time
3 while True:
4     temp = random.randint(10, 100)
5     humidity = random.randint(1, 100)
6     tempstr and humiditystr:
7     print("ALERT!! Detected temperature: " + str(temp) + "°C" + " Detected humidity: " + str(humidity))
8     elif temp > 80:
9     print("ALERT!! Detected temperature: " + str(temp) + "°C")
10    elif humidity > 90:
11    print("ALERT!! Detected humidity: " + str(humidity))
12    time.sleep(1)
```

The Run console at the bottom shows the output of the script:

```
ALERT!! Detected humidity: 72
ALERT!! Detected temperature: 79°C
ALERT!! Detected temperature: 87°C Detected humidity: 95
ALERT!! Detected temperature: 81°C Detected humidity: 78
ALERT!! Detected humidity: 95
ALERT!! Detected temperature: 91°C Detected humidity: 42
ALERT!! Detected humidity: 72
ALERT!! Detected humidity: 89
ALERT!! Detected humidity: 95
```

The status bar at the bottom indicates the system is on Windows 10, with 74% disk space, 12.8 GB RAM, and 12.8 GB free space. The system clock shows 12:38 PM on 10/10/2020.