

## **ASSIGNMENT-2**

### **Python Programming**

Assignment Date	27 September 2022
Student Name	A. ARSHITHA
Student Roll Number	960219106035
Maximum Marks	2 Marks

### **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.**

### **Solution:**

```
import random
i=1
while(i<=10):
    temp=random.randint(-88,58)
    hum=random.randint(1,10)
    hum=hum*10
    print(f"Temperature:{temp}\u00B0C")
```

```
print(f"Humidity: {hum}%")
```

```
if temp>37 and hum>50:
```

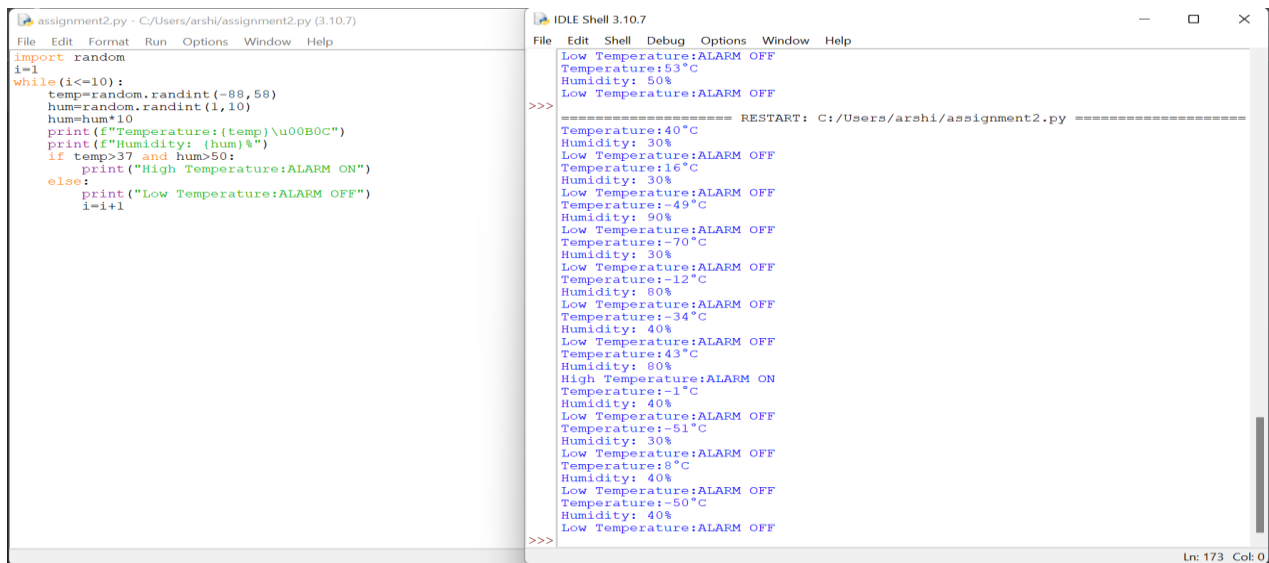
```
    print("High Temperature:ALARM ON")
```

```
else:
```

```
    print("Low Temperature:ALARM OFF")
```

```
    i=i+1
```

## OUTPUT:



```
assignment2.py - C:/Users/arshi/assignment2.py (3.10.7)
File Edit Format Run Options Window Help
import random
i=1
while (i<=10):
    temp=random.randint(-88,58)
    hum=random.randint(1,10)
    hum=hum*10
    print(f"Temperature: {temp}\u00B0C")
    print(f"Humidity: {hum}%")
    if temp>37 and hum>50:
        print("High Temperature:ALARM ON")
    else:
        print("Low Temperature:ALARM OFF")
        i=i+1

IDLE Shell 3.10.7
File Edit Shell Debug Options Window Help
Low Temperature:ALARM OFF
Temperature:53°C
Humidity: 50%
Low Temperature:ALARM OFF
>>>
===== RESTART: C:/Users/arshi/assignment2.py =====
Temperature:40°C
Humidity: 30%
Low Temperature:ALARM OFF
Temperature:16°C
Humidity: 30%
Low Temperature:ALARM OFF
Temperature:-49°C
Humidity: 90%
Low Temperature:ALARM OFF
Temperature:-70°C
Humidity: 30%
Low Temperature:ALARM OFF
Temperature:-12°C
Humidity: 80%
Low Temperature:ALARM OFF
Temperature:-34°C
Humidity: 40%
Low Temperature:ALARM OFF
Temperature:43°C
Humidity: 80%
High Temperature:ALARM ON
Temperature:-1°C
Humidity: 40%
Low Temperature:ALARM OFF
Temperature:-51°C
Humidity: 30%
Low Temperature:ALARM OFF
Temperature:8°C
Humidity: 40%
Low Temperature:ALARM OFF
Temperature:-50°C
Humidity: 40%
Low Temperature:ALARM OFF
>>>
Ln: 173 Col: 0
```