

ASSIGNMENT -2

Python Programming

Assignment Date	29 th September 2022
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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.

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
```

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

```
Temperature:-75°C
Humidity:60%
Low Temperature:ALARM OFF
>>>
RESTART: C:/Users/91637/AppData/Local/Programs/Python/Python37/python assignmen
t 2.py
Temperature:26°C
Humidity:100%
Low Temperature:ALARM OFF
Temperature:23°C
Humidity:70%
Low Temperature:ALARM OFF
Temperature:11°C
Humidity:10%
Low Temperature:ALARM OFF
Temperature:-58°C
Humidity:90%
Low Temperature:ALARM OFF
Temperature:33°C
Humidity:30%
Low Temperature:ALARM OFF
Temperature:49°C
Humidity:90%
High Temperature:ALARM ON
Temperature:38°C
Humidity:50%
Low Temperature:ALARM OFF
Temperature:-8°C
Humidity:50%
Low Temperature:ALARM OFF
Temperature:49°C
Humidity:20%
Low Temperature:ALARM OFF
Temperature:25°C
Humidity:90%
Low Temperature:ALARM OFF
Temperature:-80°C
Humidity:40%
Low Temperature:ALARM OFF
>>> |
```