

## Assignment -02

### Python Programming

Assignment Date	25 September 2022
Student Name	Dhinesh P
Student Register Number	422719106002
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 of high temperature .

Solution :

```
import time
```

```
i=0
```

```
While (i<=1440):
```

```
    i=i+1
```

```
    time.sleep(10)
```

```
    import random
```

```
    temp=random.randint(0,30)
```

```
    humid=random.randint(1,1000)
```

```
    if temp<=15:
```

```
        print (temp,"degree the temperature is low")
```

```
    elif temp<=25:
```

```
        print (temp,"degree the temperature is normal")
```

```
    else:
```

```
        print (temp,"degree the temperature is high")
```

```
    if humid<=50:
```

```
        print (humid,"the humidity is low")
```

```
    elif humid<=80:
```

```
        print (humid,"the humidity is normal")
```

```
    else:
```

```
        print (humid,"the humidity is high")
```

```
import time
i=0
while (i<=1440):
    i=i+1
    time.sleep(10)

    import random
    temp=random.randint(0,30)
    humid=random.randint(1,100)
    if temp<=15:
        print (temp, "degree the temperature is low")
    elif temp<=25:
        print (temp, "degree the temperature is normal")
    else:
        print (temp, "degree the temperature is high")
    if humid<=50:
        print (humid, "the humidity is low")
    elif humid<=80:
        print (humid, "the humidity is normal")
    else:
        print (humid, "the humidity is high")
```

IDLE Shell 3.10.7\*

File Edit Shell Debug Options Window Help

Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep 5 2022, 14:08:36) [MSC v.1933 64 bit (AMD64)] on win32  
Type "help", "copyright", "credits" or "license()" for more information.

>>>

===== RESTART: C:/Users/Muthusamy/Desktop/murali.py =====

29 degree the temperature is high  
30 the humidity is low  
12 degree the temperature is low  
81 the humidity is high  
25 degree the temperature is normal  
42 the humidity is low  
25 degree the temperature is normal  
32 the humidity is low  
7 degree the temperature is low  
16 the humidity is low  
8 degree the temperature is low  
63 the humidity is normal

Ln: 5 Col: 0

