

Assignment -02

Python Programming

Assignment Date	25 September 2022
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Student Roll Number	312319106097
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")

```

Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep 5 2022, 14:08:36) [MSC v.1933 64 bit (AMD64)] on Win32

File Edit Shell Debug Options Window Help

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

1 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

