

ASSIGNMENT 2
(PYTHON PROGRAMMING)

ASSIGNMENT DATE	24 SEPTEMBER 2022
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MAXIMUM MARKS	2 MARKS

QUESTION:

1) Build a python code , Assume you get temperature and humidity values (generated with random functions to variable) and write a condition to continuously detect alarm in case of high temperature.

SOLUTION:PYTHON CODE:

```
import random
```

```
import time
```

```
while True:
```

```
    tem=random.randint(10,100)
```

```
    hum=random.randint(10,100)
```

```
    if tem>=80:
```

```
        print(f"{tem}:high temperature is detected!!!....")
```

```
    elif tem==50:
```

```
        print(f"{tem}temperature reached its maximum threshold")
```

```
    else:
```

```
        print(f"{tem}:temperature is very low..its freezing")
```

```
    if hum>=70:
```

```
        print(f"{hum}:high humidity is detected!!!")
```

```
    else:
```

```
        print(f"{hum}:humidity is optimum....")
```

```
    time.sleep(2)
```

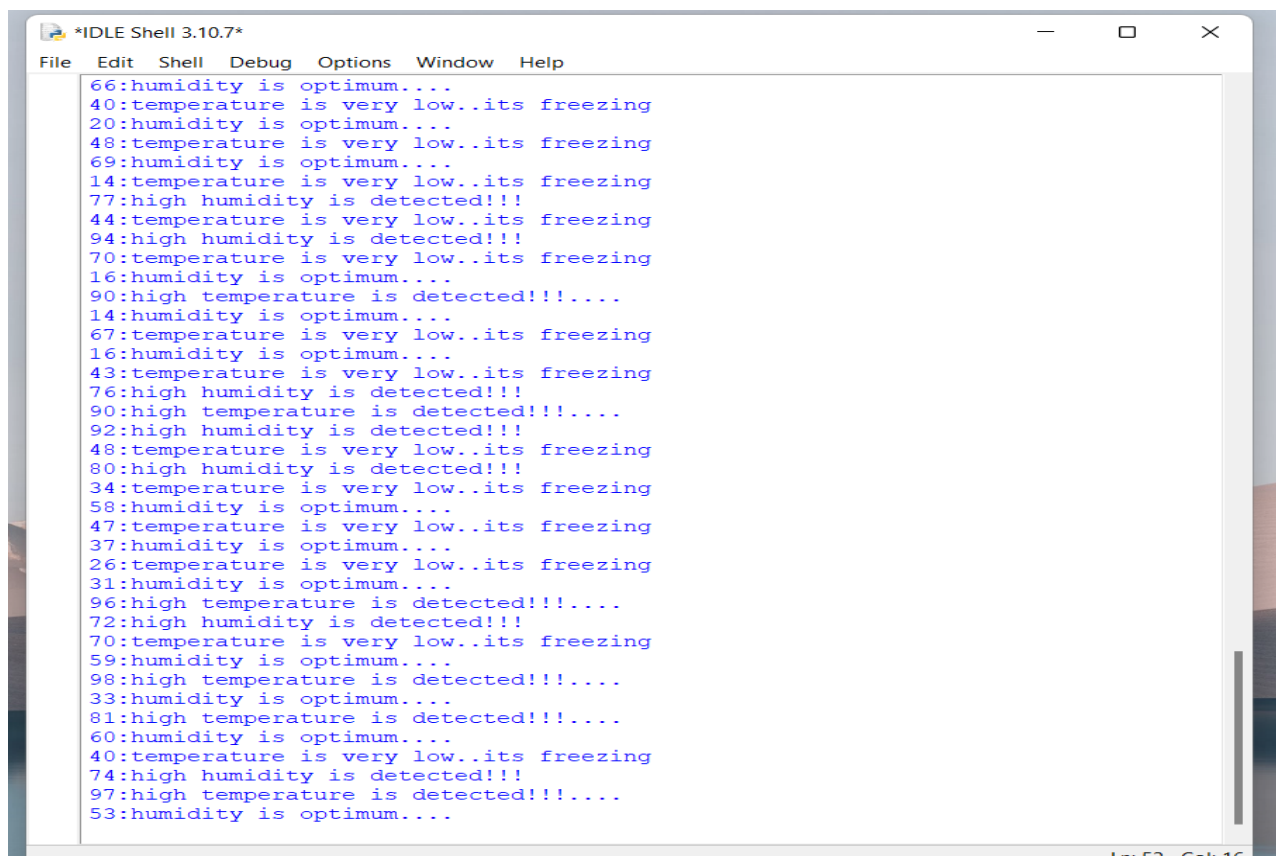
assign-2.py - C:\Users\harip\AppData\Local\Programs\Python\Python310\assign-2.py (3.10.7)

File Edit Format Run Options Window Help

```
import random
import time
while True:
    tem=random.randint(10,100)
    hum=random.randint(10,100)

    if tem>=80:
        print(f"{tem}:high temperature is detected!!!....")
    elif tem==50:
        print(f"{tem}temperature reached its maximum threshold")
    else:
        print(f"{tem}:temperature is very low..its freezing")
    if hum>=70:
        print(f"{hum}:high humidity is detected!!!")
    else:
        print(f"{hum}:humidity is optimum....")
    time.sleep(2)
```

Output:



```
*IDLE Shell 3.10.7*
File Edit Shell Debug Options Window Help
66:humidity is optimum...
40:temperature is very low..its freezing
20:humidity is optimum...
48:temperature is very low..its freezing
69:humidity is optimum...
14:temperature is very low..its freezing
77:high humidity is detected!!!
44:temperature is very low..its freezing
94:high humidity is detected!!!
70:temperature is very low..its freezing
16:humidity is optimum...
90:high temperature is detected!!!....
14:humidity is optimum...
67:temperature is very low..its freezing
16:humidity is optimum...
43:temperature is very low..its freezing
76:high humidity is detected!!!
90:high temperature is detected!!!....
92:high humidity is detected!!!
48:temperature is very low..its freezing
80:high humidity is detected!!!
34:temperature is very low..its freezing
58:humidity is optimum...
47:temperature is very low..its freezing
37:humidity is optimum...
26:temperature is very low..its freezing
31:humidity is optimum...
96:high temperature is detected!!!....
72:high humidity is detected!!!
70:temperature is very low..its freezing
59:humidity is optimum...
98:high temperature is detected!!!....
33:humidity is optimum...
81:high temperature is detected!!!....
60:humidity is optimum...
40:temperature is very low..its freezing
74:high humidity is detected!!!
97:high temperature is detected!!!....
53:humidity is optimum...
Ln 52, Col 16
```

