

Assignment - 2

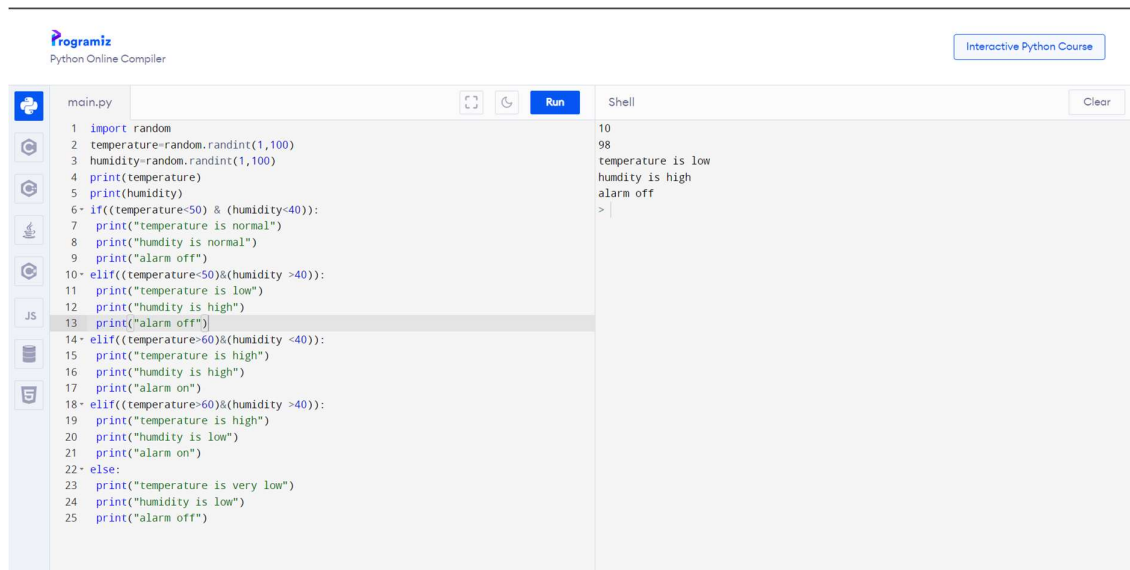
Temperature and humidity

Date	29 September 2022
Student Name	Manoj Kumar S
Student Roll No	911719104031
Maximum Marks	2 Marks

Question -2

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

Output :



The screenshot shows the Programiz Python Online Compiler interface. On the left, a file named 'main.py' is open, containing the following Python code:

```
1 import random
2 temperature=random.randint(1,100)
3 humidity=random.randint(1,100)
4 print(temperature)
5 print(humidity)
6 if((temperature<50) & (humidity<40)):
7     print("temperature is normal")
8     print("humidity is normal")
9     print("alarm off")
10 elif((temperature<50)&(humidity >40)):
11     print("temperature is low")
12     print("humidity is high")
13     print("alarm off")
14 elif((temperature>60)&(humidity <40)):
15     print("temperature is high")
16     print("humidity is high")
17     print("alarm on")
18 elif((temperature>60)&(humidity >40)):
19     print("temperature is high")
20     print("humidity is low")
21     print("alarm on")
22 else:
23     print("temperature is very low")
24     print("humidity is low")
25     print("alarm off")
```

On the right, the 'Shell' output area shows the results of running the code:

```
10
98
temperature is low
humidity is high
alarm off
>
```

Code and Screenshot:

Python Code: '''

Assignment 2:

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

DONE BY

ROLL NO: 911719104031

BRANCH: Computer Science Engineering

COLLEGE: MOUNT ZION COLLEGE OF ENGINEERING AND TECHNOLOGY

'''

```
import random
```

```
temperature=random.randint(1,100)
```

```
humidity=random.randint(1,100)
```

```
print(temperature)
```

```
print(humidity)
```

```
if((temperature<50) & (humidity<40)):
```

```
    print("temperature is normal")
```

```
    print("humdity is normal")
```

```
    print("alarm off")
```

```
elif((temperature<50)&(humidity >40)):
```

```
    print("temperature is low")
```

```
    print("humdity is high")
```

```
    print("alarm off")
```

```
elif((temperature>60)&(humidity <40)):
```

```
    print("temperature is high")
```

```
    print("humdity is high")
```

```
    print("alarm on")
```

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elif((temperature>60)&(humidity >40)):
```

```
    print("temperature is high")
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```
    print("humdity is low")
```

```
    print("alarm on")
```

```
else:
```

```
    print("temperature is very low")
```

```
    print("humidity is low")
```

```
    print("alarm off")
```

Output for code:

10

98

temperature is low

humidity is high

alarm off

>