

## ASSIGNMENT-2 TEMPERATURE AND HUMIDITY VALUE

Date	28 October 2022
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CODE:

A screenshot of a Python IDE interface. On the left is a sidebar with icons for Python, Jupyter Notebook, JavaScript, and a database. The main area shows a file named 'main.py' with the following Python code:

```
1 import time
2 i=0
3 while(i<=10):
4     i=i+1
5     time.sleep(1)
6     import random
7     temperature=random.randint(0,30)
8     humidity=random.randint(1,100)
9     if temperature<=15:
10         print(temperature,"temperature is low")
11     elif temperature<=25:
12         print(temperature,"temperature is normal")
13     else:
14         print(temperature,"temperature is high")
15     if humidity<=30:
16         print(humidity,"humidity is low")
17     elif humidity<=60:
18         print(humidity,"humidity is normal")
19     else:
```

The code is syntactically correct but contains a logical error: it checks humidity conditions only when the temperature condition is not met. The IDE has a 'Run' button in the top right corner.

OUTPUT:

## Shell

```
19 temperature is normal
58 humidity is normal
27 temperature is high
18 humidity is low
10 temperature is low
80 humidity is high
18 temperature is normal
91 humidity is high
9 temperature is low
40 humidity is normal
30 temperature is high
58 humidity is normal
5 temperature is low
98 humidity is high
14 temperature is low
21 humidity is low
25 temperature is normal
36 humidity is normal
17 temperature is normal
20 humidity is low
14 temperature is low
12 humidity is low
```

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