

SNS COLLEGE OF TECHNOLOGY  
DEPARTMENT OF ECE

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PROJECT TITTLE : Industry-specific intelligent fire management system

CODE:

```
import random
```

```
import time
```

```
while True:
```

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

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

```
    print("Temperature: ", temperature)
```

```
    print("Humidity: ", humidity)
```

```
    if temperature >= 60 and (30 < humidity < 60):
```

```
        print("Alarm ON!")
```

```
    else:
```

```
        print("Alarm OFF!")
```

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

file.py - Assignment 2 - Visual Studio Code

File Edit Selection View Go Run Terminal Help

file.py x

```
1 import random
2 import time
3
4 while True:
5     temperature = random.randint(1,100)
6     humidity = random.randint(1,100)
7     print("Temperature: ", temperature)
8     print("Humidity: ", humidity)
9     if temperature >= 60 and (30 < humidity < 60):
10         print("Alarm ON!")
11
12     else:
13         print("Alarm OFF!")
14
15     time.sleep(2)
16
17
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

Shell: bash 5.1.16  
Resolution: 1920x1080  
DE: Unity  
WM: Mutter  
X11 Theme: Colloid-Dark-Nord  
Theme: Colloid-Dark-Nord [GTK2/3]  
Icons: Colloid-dark [GTK2/3]  
Terminal: vscode  
CPU: AMD Ryzen 7 4800H with Radeon Graphics (16) @ 2.900Ghz  
GPU: NVIDIA 01:00.0 NVIDIA Corporation TU117M  
GPU: AMD ATI 05:00.0 Renoir  
Memory: 4255MiB / 7318MiB

nero@nero:~/Documents/IBM/Assignment 2\$ /bin/python3 ~/home/nero/Documents/IBM/Assignment 2/file.py

Temperature: 97  
Humidity: 87  
Alarm ON!  
Temperature: 18  
Humidity: 31  
Alarm OFF!

Python Deb...  
python

Ln 17, Col 1 Spaces: 4 UTF-8 LF Python 3.10.6 64-bit Go Live

file.py - Assignment 2 - Visual Studio Code

File Edit Selection View Go Run Terminal Help

file.py x

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2 import time
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4 while True:
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8     print("Humidity: ", humidity)
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15     time.sleep(2)
16
17
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

Temperature: 97  
Humidity: 87  
Alarm ON!  
Temperature: 18  
Humidity: 31  
Alarm OFF!  
Temperature: 33  
Humidity: 8  
Alarm OFF!  
Temperature: 89  
Humidity: 27  
Alarm OFF!  
Temperature: 44  
Humidity: 90  
Alarm OFF!  
Temperature: 65  
Humidity: 60  
Alarm OFF!  
Temperature: 6  
Humidity: 61  
Alarm OFF!  
Temperature: 99  
Humidity: 11  
Alarm OFF!

Python Deb...  
python

Ln 17, Col 1 Spaces: 4 UTF-8 LF Python 3.10.6 64-bit Go Live