

Assignment -2

Python Programming

Assignment Date	24 September 2022
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Maximum Marks	2 Marks

Build a python code, assume u 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 random
print("Welcome To Tempertature monitoring IoT Device\n")
temp=int(random.randint(0,100))
humdi=int(random.randint(1,100))

if temp >= 50 and temp <= 80:
    print("Moderate Temperature")
    print(f"Humidity Level is {humdi}%")

elif temp >= 81 :
    print("Extremely High Temperature")
    print(f"Humidity Level is {humdi}%")
else:
    print("Room Temperature")
    print(f"Humidity Level is {humdi}%")
```

Output

```
Welcome To Tempertature monitoring IoT Device

Extremely High Temperature
Humidity Level is 9%
> █
```

```
Welcome To Tempertature monitoring IoT Device

Room Temperature
Humidity Level is 47%
> █
```

```
Welcome To Tempertature monitoring IoT Device

Moderate Temperature
Humidity Level is 53%
> █
```

