

IBM Nalaiyathiran

Assignment-2

Question:

Build a python code, Assume you 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.

Program:

```
import time,random

while True:
    current_temperature = random.randint(0,40)
    current_humidity = random.randint(0,100)

    print("Current temperature is {}".format(current_temperature))
    print("Current humidity is {}".format(current_humidity))

    if current_temperature > 30 :
        print("The temperature is high")
    elif current_temperature > 15:
        print("The temperature is normal")
    else:
        print("The temperature is low")

    if current_humidity > 80 :
        print("The humidity is high")
    elif current_humidity > 15:
        print("The humidity is normal")
    else:
        print("The humidity is low")
    print()
    time.sleep(3)
```

Output:

```
chandraprabhu::Assignment-2      $ python3 assignment-2.py
Current temperature is 16
Current humidity is 43
The temperature is normal
The humidity is normal

Current temperature is 22
Current humidity is 58
The temperature is normal
The humidity is normal

Current temperature is 36
Current humidity is 69
The temperature is high
The humidity is normal

Current temperature is 17
Current humidity is 17
The temperature is normal
The humidity is normal

Current temperature is 40
Current humidity is 21
The temperature is high
The humidity is normal

Current temperature is 37
Current humidity is 52
The temperature is high
The humidity is normal
```