Assignment -1
Python assignment

Assignment Date	21 September 2022
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Maximum Marks	2 Marks

Question-1:

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.

Solution:

```python
import random as rand

print("Welcome to Temperature and Humidity Monitoring Device")

temp = int(rand.randint(-40,125))

humid = int(rand.randint(0,100))

if((temp >= -40) and (temp <=-1)):

    print(f"Temperature: {temp} *C")

    print("Low Temperature, Freezing!")

    print(f"Humidity: {humid}%")

elif((temp >= 1) and (temp <= 20)):

    print(f"Temperature: {temp} *C")

    print("Cold Breeze")

    print(f"Humidity: {humid}%")

elif((temp >= 21) and (temp <= 29)):

    print(f"Temperature: {temp} *C")

    print("Room Temperature")

    print(f"Humidity: {humid}%")

elif((temp >= 30) and (temp <= 54)):

    print(f"Temperature: {temp} *C")

    print("Teamperature is high!\nPlease turn on the Air Conditioner to avoid heatstroke")

    print(f"Humidity: {humid}%")

else:
```

```python
print(f"Temperature: {temp} *C")

print("Warning! Temperature is very High!\nPlease leave the area immediately")

print(f"Humidity: {humid}%")
```

Output:

```
Welcome to Temperature and Humidity Monitoring Device
Temperature: 26 *C
Room Temperature
Humidity: 53%
```

```
Welcome to Temperature and Humidity Monitoring Device
Temperature: 102 *C
Warning! Temperature is very High!
Please leave the area immediately
Humidity: 71%
```