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ASSIGNMENT 2

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:

```
import random

import time

while True:

    temperature = random.randint(-15,100)

    humidity = random.randint(1,100)

    print(f'Checking Temperature: {temperature}&#39;\N{DEGREE SIGN}&#39;&quot;C&quot;;)

    print(f'Checking Humidity: {humidity}%&quot;;)

    f = (temperature * 1.8 ) +32

    print('&quot;Temperature in Fahreheit is:&quot;;,f)

    #Humidity Measurement

    if humidity &gt;= 100:

        print(f'&quot;{humidity}% it is a Humid humudity level&quot;;)

    elif 65&lt;humidity&lt;100 :

        print(f'&quot;{humidity}% it is a Prefect humudity level&quot;;)

    else :

        print(f'&quot;{humidity}% it is a Dry humudity level&quot;;)

    #Temperature Measurement

    if temperature &gt;=37:

        print(f'&quot;{temperature}&quot;u&#39;\N{DEGREE SIGN}&#39;&quot;C is a Hot Temperature\nAlarm is activated \n
```

Notification is Notified")

elif temperature==37:

print(f"{temperature}"u{#39;\N{DEGREE SIGN}{#39}"C is a Normal Temperature")

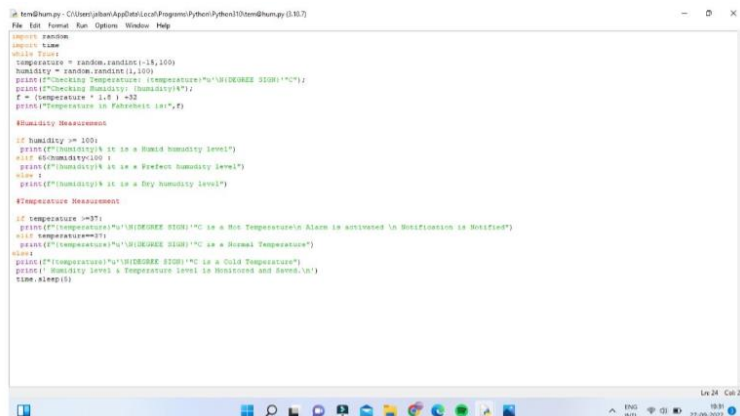
else:

print(f"{temperature}"u{#39;\N{DEGREE SIGN}{#39}"C is a Cold Temperature")

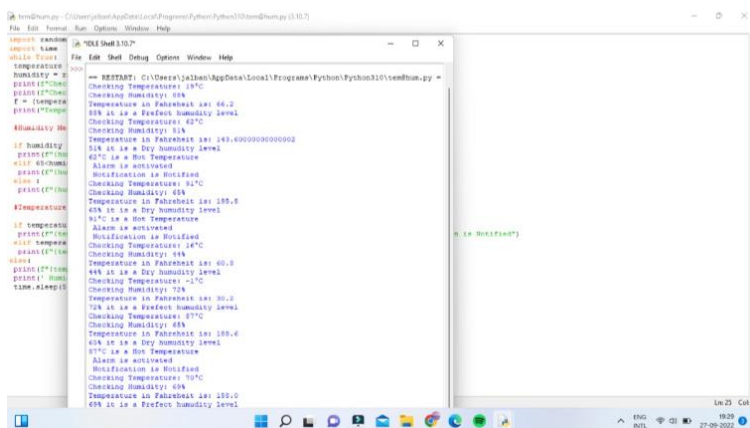
print(' Humidity level & Temperature level is Monitored and Saved.\n{#39;)

time.sleep(5)

OUTPUT:



```
import random
import time
while True:
    temperature = random.randint(-10,100)
    humidity = random.randint(1,100)
    print(f"Checking Temperature: {temperature}°N{DEGREE SIGN}°C")
    print(f"Checking Humidity: {humidity}%")
    f = (temperature + 1.8 ) *32
    print(f"Temperature in Fahrenheit is:{f}")
#Humidity Measurement
if humidity >= 100:
    print(f"humidity% it is a Humid humidity level")
elif 45<humidity<100:
    print(f"humidity% it is a Perfect humidity level")
else:
    print(f"humidity% it is a Dry humidity level")
#Temperature Measurement
if temperature >=37:
    print(f"temperature{temperature}°C is a Hot Temperature\n Alarm is activated in Notification is Notified")
elif temperature<37:
    print(f"temperature{temperature}°C is a Normal Temperature")
else:
    print(f"temperature{temperature}°C is a Cold Temperature")
print(f" Humidity level & Temperature level is Monitored and Saved.\n")
time.sleep(5)
```



```
import random
import time
while True:
    temperature = 33
    humidity = 4
    print(f"Checking Temperature: 33°C")
    print(f"Checking Humidity: 4%")
    f = (temperature + 1.8 ) *32
    print(f"Temperature in Fahrenheit is: 91.4")
#Humidity Me
if humidity >= 100:
    print(f"humidity% it is a Humid humidity level")
elif 45<humidity<100:
    print(f"humidity% it is a Perfect humidity level")
else:
    print(f"humidity% it is a Dry humidity level")
#Temperature
if temperature >=37:
    print(f"temperature is Notified")
elif temperature<37:
    print(f"temperature is Notified")
else:
    print(f"temperature is Notified")
print(f" Humidity level & Temperature level is Monitored and Saved.\n")
time.sleep(5)
```