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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&quot;Checking Temperature: {temperature}&quot;u&#39;\N{DEGREE SIGN}&#39;&quot;C&quot;);

print(f&quot;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\n Alarm is activated \n
```

Notification is Notified")

elif temperature==37:

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

else:

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

print(' Humidity level & Temperature level is Monitored and Saved.\n')

time.sleep(5)

OUTPUT: