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Project Name	Hazardous Area Monitoring for Industrial Plant powered by IoT

ASSIGNMENT-2

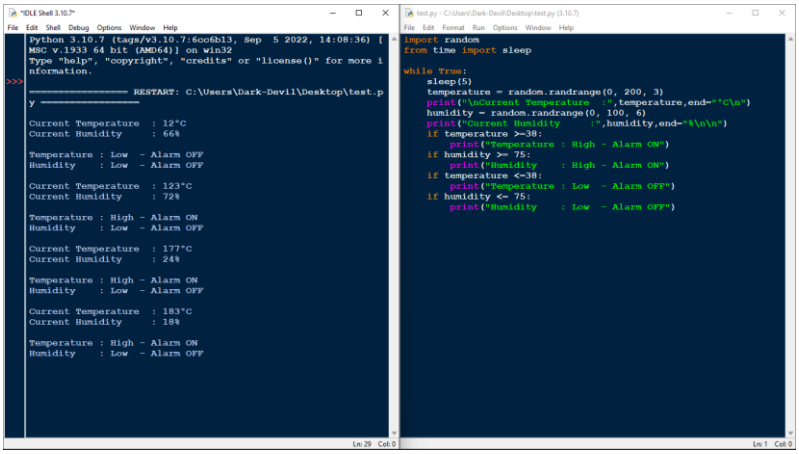
QUESTION

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.

CODE:

```
import random

from time import sleep

while True:

  sleep(5)

  temperature = random.randrange(0, 200, 3)

  print("\nCurrent Temperature  =",temperature,end="°C\n")

  humidity = random.randrange(0, 100, 6)

  print("Current Humidity     =",humidity,end="%\n\n")

  if temperature >=38:

    print("Temperature >> High - Alarm ON")

  if humidity >= 75:

    print("Humidity    >> High - Alarm ON")

  if temperature <=38:

    print("Temperature >> Low  - Alarm OFF")

  if humidity <= 75:

    print("Humidity    >> Low  - Alarm OFF")
```

OUTPUT


IDLE Shell 3.10.7
File Edit Shell Debug Options Window Help
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep 5 2022, 14:08:36) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: C:\Users\Dark-Devil\Desktop\test.py ==========
Current Temperature : 12°C
Current Humidity : 66%
Temperature : Low - Alarm OFF
Humidity : Low - Alarm OFF
Current Temperature : 123°C
Current Humidity : 72%
Temperature : High - Alarm ON
Humidity : Low - Alarm OFF
Current Temperature : 177°C
Current Humidity : 24%
Temperature : High - Alarm ON
Humidity : Low - Alarm OFF
Current Temperature : 183°C
Current Humidity : 18%
Temperature : High - Alarm ON
Humidity : Low - Alarm OFF
Ln: 29 Col: 0
test.py - C:\Users\Dark-Devil\Desktop\test.py (3.10.7)
File Edit Format Run Options Window Help
import random
from time import sleep
while True:
sleep(5)
temperature = random.randrange(0, 200, 3)
print("\nCurrent Temperature :",temperature,end="°C\n")
humidity = random.randrange(0, 100, 6)
print("Current Humidity :",humidity,end="%\n\n")
if temperature >=30:
print("Temperature : High - Alarm ON")
if humidity >= 75:
print("Humidity : High - Alarm ON")
if temperature <=10:
print("Temperature : Low - Alarm OFF")
if humidity <= 75:
print("Humidity : Low - Alarm OFF")
Ln: 1 Col: 0