ASSIGNMENT-2

ASSESSMENT DATE	26 SEPTEMBER 2022
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MARKS	2 Marks

PROBLEM:

Build a python code, Assume you get temperature and humidity values (generated with random function to a variable) andwrite a condition to continuously detect alarm in case of high temperature.

CODE

```
# import the random and time librarys
import random
import time

# iterate the random values of Temperature and humidity within the specified range
while True:
    temp = random.randint(30, 243)
    humi = random.randint(0, 100)

    #print the values of Temperature and humidity
    print("Temperature is : "+str(temp)+"°F")
    print("Temperature in celsius : "+str(((temp-32)*5)//9)+"?")
    print("The Humidity is : "+str(humi)+"%")

    # check if the temperature values are higher than 100°F
    if (temp >= 100):
        print("High Temperature Alert : "+str(temp)+"°F")
    time.sleep(10)
```

SIMULATION SCREENSHOT:

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main.py

```
1   # import the random and time librarys
2   import random
3   import time
4
```

input

```
Temperature is : 39°F
Temperature in celsius : 3?
The Humidity is : 52%
Temperature is : 207°F
Temperature in celsius : 97?
The Humidity is : 37%
High Temperature Alert : 207°F
Temperature is : 161°F
Temperature in celsius : 71?
The Humidity is : 45%
High Temperature Alert : 161°F
Temperature is : 85°F
Temperature in celsius : 29?
The Humidity is : 87%
Temperature is : 131°F
Temperature in celsius : 55?
The Humidity is : 20%
High Temperature Alert : 131°F
Temperature is : 131°F
Temperature in celsius : 55?
The Humidity is : 91%
High Temperature Alert : 131°F
Temperature is : 243°F
Temperature in celsius : 117?
The Humidity is : 93%
High Temperature Alert : 243°F
```

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