

VELAMMAL ENGINEERING COLLEGE
ELECTRONICS AND COMMUNICATION ENGINEERING

SMART FARMERS - IOT
ENABLED FARMING
APPLICATION
ASSIGNMENT – 2

BY:

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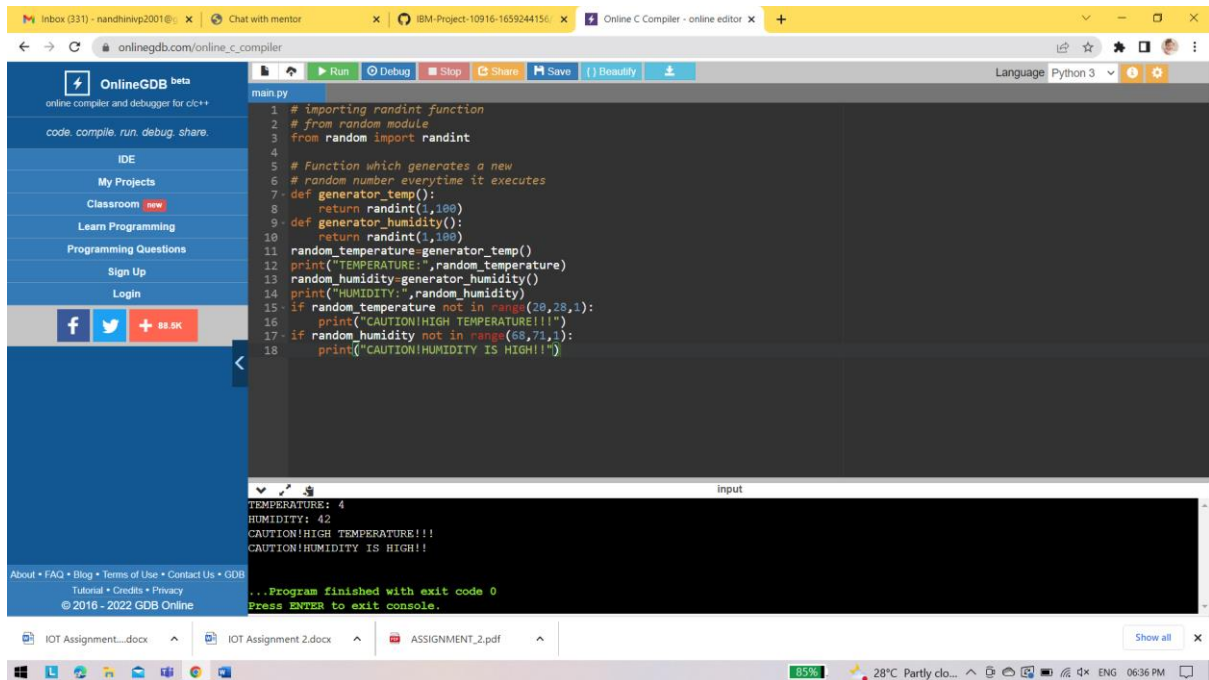
Question:

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:

```
# importing randint function
# from random module from random import randint
# Function which generates a new
# random number everytime it executes
def generator_temp():
    return randint(1,100)
def generator_humidity():
    return randint(1,100)
random_temperature=generator_temp()
print("TEMPERATURE:",random_temperature)
random_humidity=generator_humidity()
print("HUMIDITY:",random_humidity)
if random_temperature not in range(20,28,1):
    print("CAUTION!HIGH TEMPERATURE!!!")
if random_humidity not in range(68,71,1):
    print("CAUTION!HUMIDITY IS HIGH!!")
```

OUTPUT:



The screenshot displays the OnlineGDB web IDE interface. The browser tabs include 'Inbox (331) - nandhinivp2001@...', 'Chat with mentor', 'IBM-Project-10916-1659244156', and 'Online C Compiler - online editor'. The address bar shows 'onlinegdb.com/online_c_compiler'. The interface features a sidebar on the left with navigation links: 'code.compile.run.debug.share.', 'IDE', 'My Projects', 'Classroom', 'Learn Programming', 'Programming Questions', 'Sign Up', and 'Login'. The main editor area shows a Python file named 'main.py' with the following code:

```
1 # importing randint function
2 # from random module
3 from random import randint
4
5 # Function which generates a new
6 # random number everytime it executes
7 def generator_temp():
8     return randint(1,100)
9 def generator_humidity():
10    return randint(1,100)
11 random_temperature=generator_temp()
12 print("TEMPERATURE:",random_temperature)
13 random_humidity=generator_humidity()
14 print("HUMIDITY:",random_humidity)
15 if random_temperature not in range(20,28,1):
16     print("CAUTION!HIGH TEMPERATURE!!!")
17 if random_humidity not in range(60,71,1):
18     print("CAUTION!HUMIDITY IS HIGH!!!")
```

The output console at the bottom shows the execution results:

```
TEMPERATURE: 4
HUMIDITY: 42
CAUTION!HIGH TEMPERATURE!!!
CAUTION!HUMIDITY IS HIGH!!!
...Program finished with exit code 0
Press ENTER to exit console.
```

The Windows taskbar at the bottom shows the system clock as 06:36 PM on 06/26/2022, with a battery level of 85% and a temperature of 28°C.