Assignment -2

Python Programming

Assignment Date	27 September 2022
Student Name	SRINIVASAN.D
Student Roll Number	110319106044
Maximum Marks	2 Marks

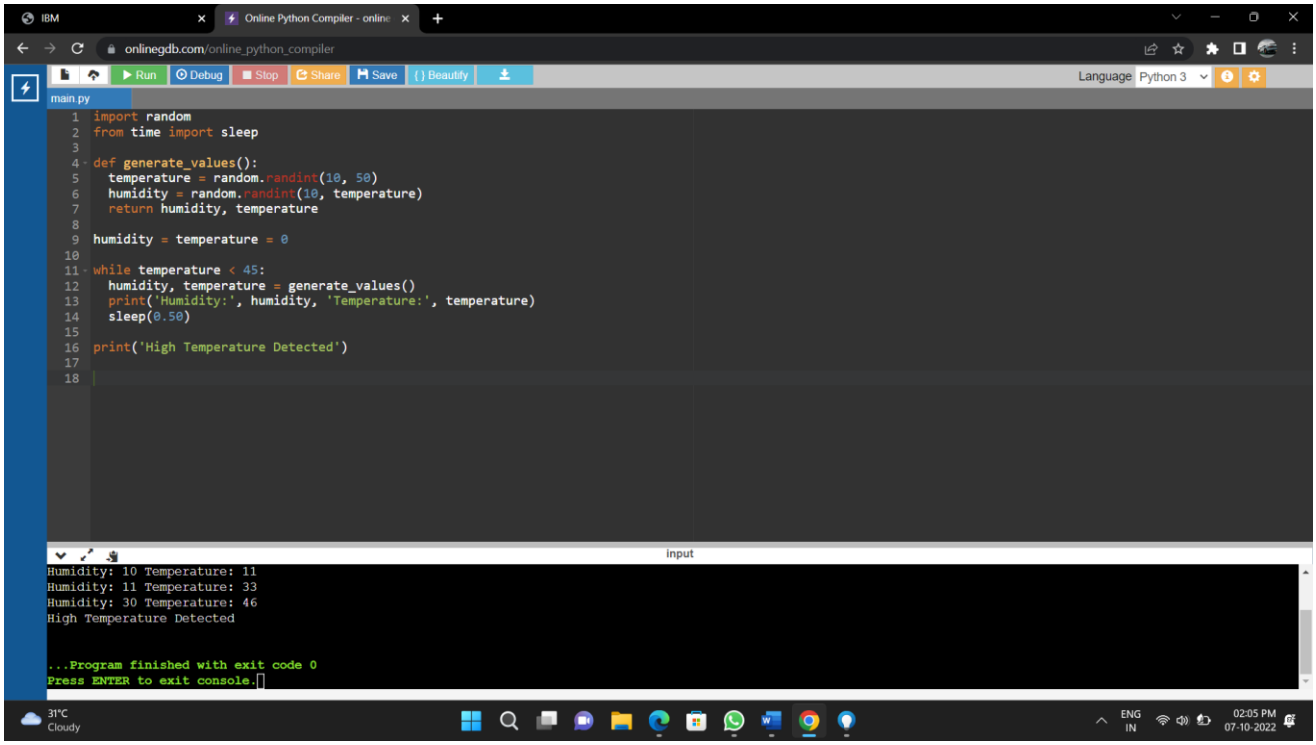
Question-1:

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

def generate_values():
  temperature = random.randint(10, 50)
  humidity = random.randint(10, temperature)
  return humidity, temperature

humidity = temperature = 0

while temperature < 45:
  humidity, temperature = generate_values()
  print('Humidity:', humidity, 'Temperature:', temperature)
  sleep(0.50)

print('High Temperature Detected')
```

OUTPUT:


IBM
Online Python Compiler - online
onlinegdb.com/online_python_compiler
Run
Debug
Stop
Share
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{ } Beautify
Language Python 3
main.py
import random
from time import sleep
def generate_values():
temperature = random.randint(10, 50)
humidity = random.randint(10, temperature)
return humidity, temperature
humidity = temperature = 0
while temperature < 45:
humidity, temperature = generate_values()
print('Humidity:', humidity, 'Temperature:', temperature)
sleep(0.50)
print('High Temperature Detected')
input
Humidity: 10 Temperature: 11
Humidity: 11 Temperature: 33
Humidity: 30 Temperature: 46
High Temperature Detected
...Program finished with exit code 0
Press ENTER to exit console.
31°C
Cloudy
ENG
IN
02:05 PM
07-10-2022