

Assignment 2

| | |
|-----------------|-------------------|
| Date | 25 September 2022 |
| Student Name | RAGHUL.R |
| Student Roll No | 513419106027 |
| | |

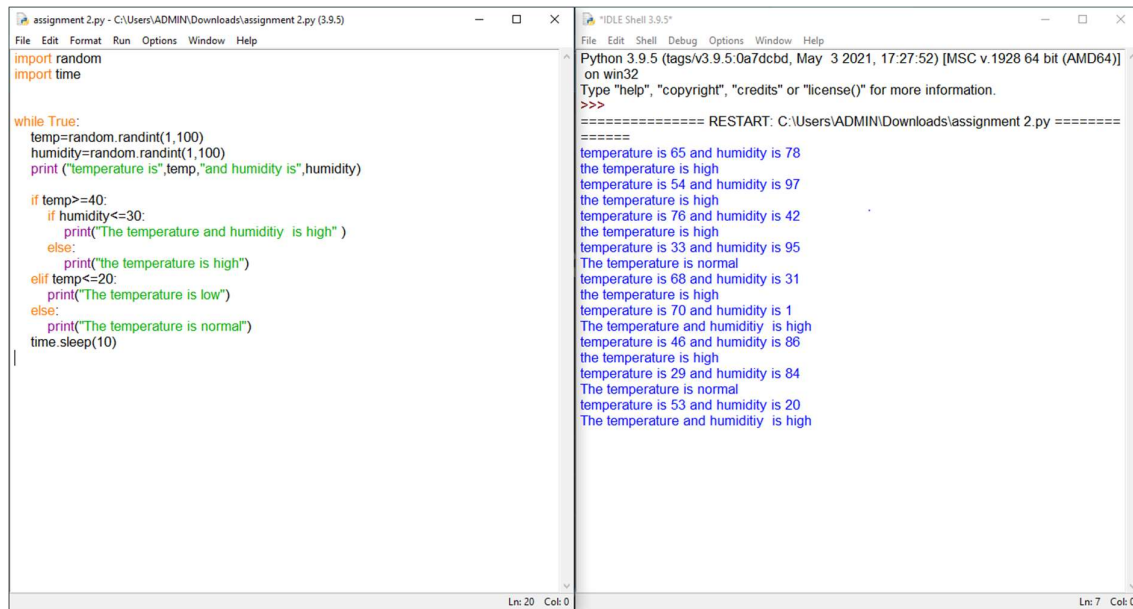
Build a python code, assume u get temperature and humidity values (generated with random function to a variable) and write a condition to continuously detect alarm in case of high temperature.

CODE:

```
import random
import time
while True:
    temp=random.randint(1,100)
    humidity=random.randint(1,100)
    print ("temperature is",temp,"and humidity is",humidity)

    if temp>=40:
        if humidity<=30:
            print("The temperature and humidity is high" )
        else:
            print("the temperature is high")
    elif temp<=20:
        print("The temperature is low")
    else:
        print("The temperature is normal")
    time.sleep(10)
```

OUTPUT:



The image shows a screenshot of a Python IDE with two windows. The left window, titled 'assignment 2.py - C:\Users\ADMIN\Downloads\assignment 2.py (3.9.5)', contains the following Python code:

```
import random
import time

while True:
    temp=random.randint(1,100)
    humidity=random.randint(1,100)
    print("temperature is",temp,"and humidity is",humidity)

    if temp>=40:
        if humidity<=30:
            print("The temperature and humidity is high")
        else:
            print("the temperature is high")
    elif temp<=20:
        print("The temperature is low")
    else:
        print("The temperature is normal")
    time.sleep(10)
```

The right window, titled '*IDLE Shell 3.9.5*', shows the output of the script. It starts with the Python version and system information, followed by a restart message. The output then displays a series of temperature and humidity readings with corresponding status messages, such as 'temperature is 65 and humidity is 78' and 'the temperature is high'.

```
Python 3.9.5 (tags/v3.9.5:0a7dcbb, May 3 2021, 17:27:52) [MSC v.1928 64 bit (AMD64)]
on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\ADMIN\Downloads\assignment 2.py =====
temperature is 65 and humidity is 78
the temperature is high
temperature is 54 and humidity is 97
the temperature is high
temperature is 76 and humidity is 42
the temperature is high
temperature is 33 and humidity is 95
The temperature is normal
temperature is 68 and humidity is 31
the temperature is high
temperature is 70 and humidity is 1
The temperature and humidity is high
temperature is 46 and humidity is 86
the temperature is high
temperature is 29 and humidity is 84
The temperature is normal
temperature is 53 and humidity is 20
The temperature and humidity is high
```