

Assignment 2
Python program

Assignment date	22 september 2022
Student name	S.Jestin Raj
Student roll number	110619106004

```
import random #random function

temp=random.randint(1,100)

humty=random.randint(1,100)

print(temp)#temperature value

print(humty)#humidity value

if((temp<30)&(humty<50)):

    print("temperature is normal:")

    print("humidity is normal:")

    print("alarm off")

elif((temp<30)&(humty>50)):

    print("temperature is low")

    print("humidity is high")

    print("alarm off")

elif((temp>30)&(humty<50)):

    print("temperature is high:")

    print("humidity is normal")

    print("alarm on")

elif((temp>30)&(humty<60)):

    print("temperature is high")

    print("humidity is normal:")

    print("alarm is on")

elif((temp>30)&(humty>60)):

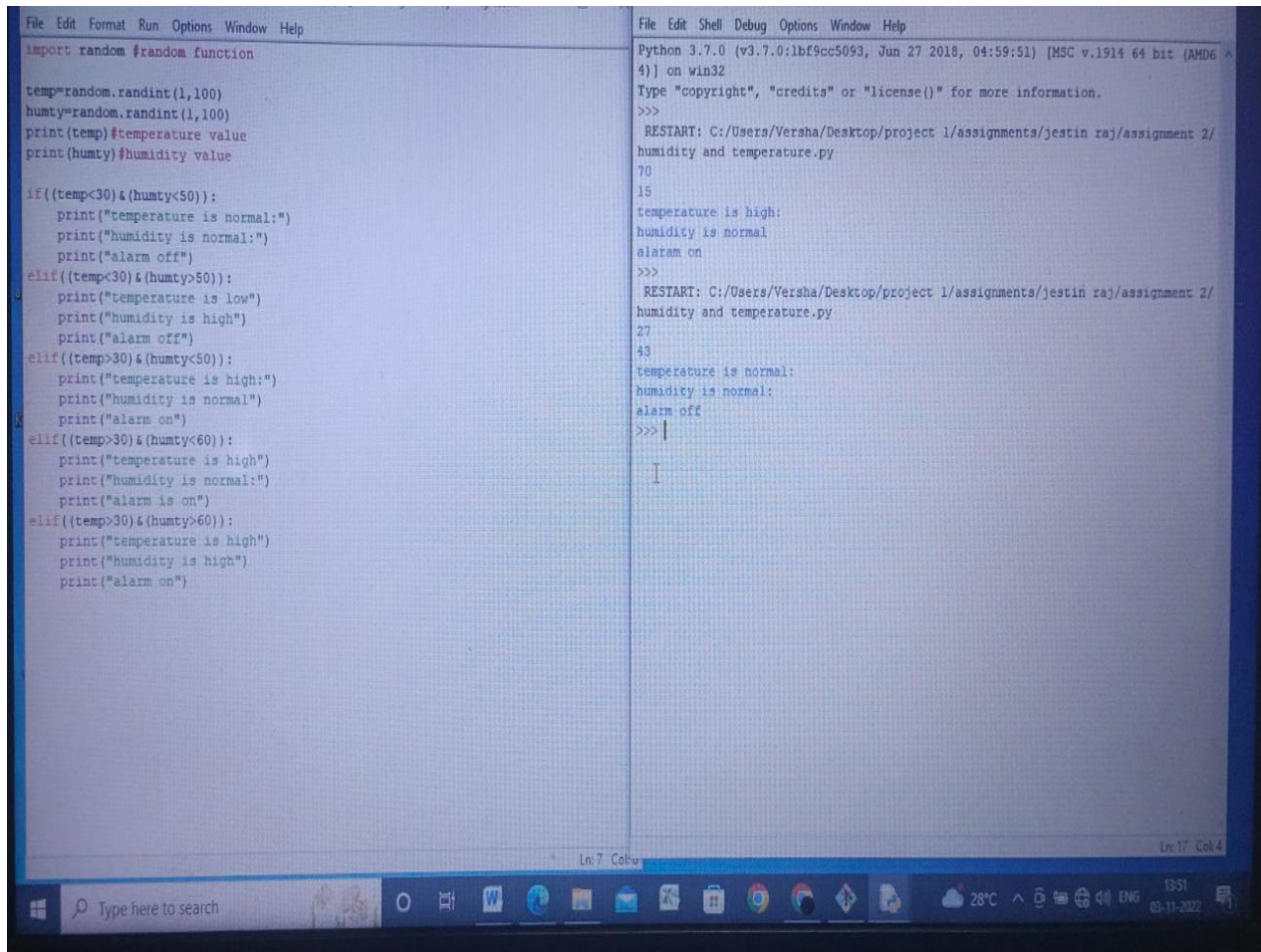
    print("temperature is high")

    print("humidity is high")

    print("alarm on")
```

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The image shows a screenshot of a Python IDE with two windows. The left window displays a Python script for monitoring temperature and humidity. The script uses the `random` module to generate random values for `temp` and `humty` (sic) between 1 and 100. It then uses a series of `if` and `elif` statements to determine the status of temperature and humidity and whether an alarm should be on or off. The right window shows the output of the script, which includes the file path, the Python version (3.7.0), and the execution results for several iterations, showing values like 70, 15, 27, and 43 for temperature and humidity, and corresponding status messages like "temperature is high", "humidity is normal", and "alarm on".

```
File Edit Format Run Options Window Help
import random #random function

temp=random.randint(1,100)
humty=random.randint(1,100)
print(temp)#temperature value
print(humty)#humidity value

if((temp<30)&(humty<50)):
    print("temperature is normal:")
    print("humidity is normal:")
    print("alarm off")
elif((temp<30)&(humty>50)):
    print("temperature is low")
    print("humidity is high")
    print("alarm on")
elif((temp>30)&(humty<50)):
    print("temperature is high:")
    print("humidity is normal")
    print("alarm on")
elif((temp>30)&(humty>60)):
    print("temperature is high")
    print("humidity is normal:")
    print("alarm is on")
elif((temp>30)&(humty>60)):
    print("temperature is high")
    print("humidity is high")
    print("alarm on")

File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
RESTART: C:/Users/Versha/Desktop/project 1/assignments/jestin raj/assignment 2/humidity and temperature.py
70
15
temperature is high:
humidity is normal
alarm on
>>>
RESTART: C:/Users/Versha/Desktop/project 1/assignments/jestin raj/assignment 2/humidity and temperature.py
27
43
temperature is normal:
humidity is normal:
alarm off
>>>
I
```

Ln: 7 Col: 11

Ln: 17 Col: 4

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