

Assignment 2
Python program

| | |
|---------------------|-------------------|
| Assignment date | 22 September 2022 |
| Student name | J.Jothi lakshmi |
| Student roll number | 110619104011 |

```
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)):
```

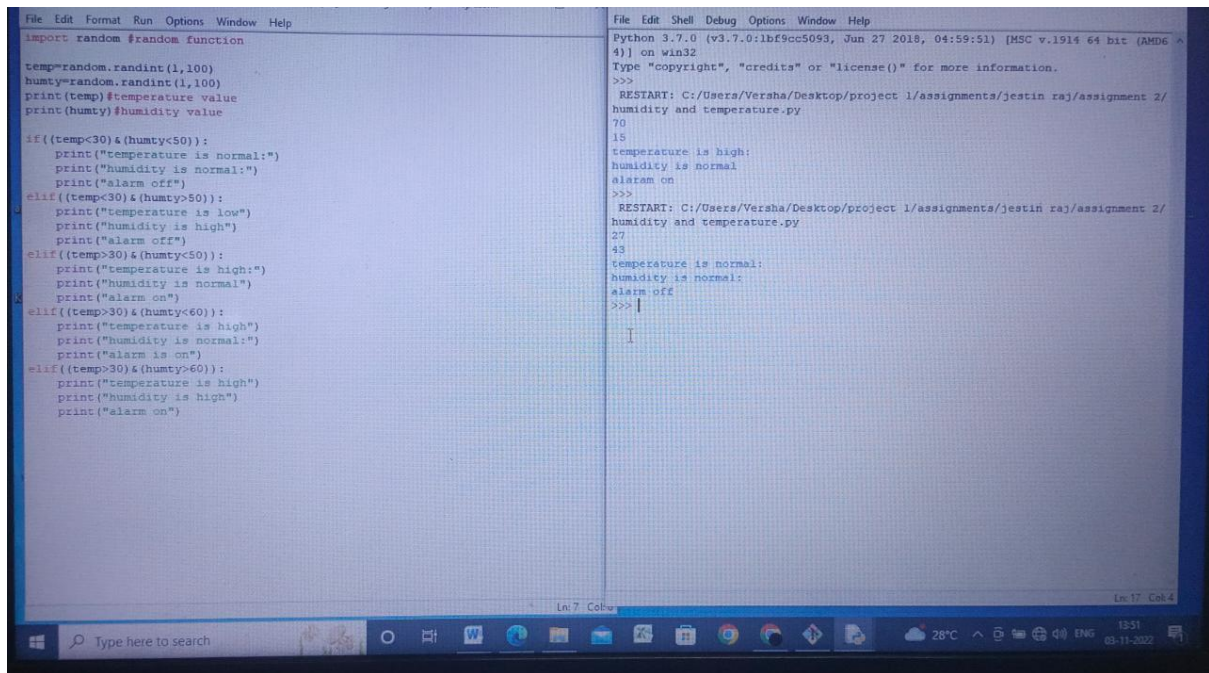
```
    print("temperature is high")
```

```
    print("humidity is high")
```

```
    print("alarm on")
```

Assignment 2

Python program



The image shows a screenshot of a Python IDE with two panes. The left pane contains a Python script, and the right pane shows the output of the script.

```
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 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")
```

The right pane shows the output of the script:

```
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
```

The taskbar at the bottom shows the Windows Start button, a search bar, and several application icons. The system tray on the right indicates a temperature of 28°C, the date 03-11-2022, and the time 13:31.