

# RMK College of Engineering and Technology

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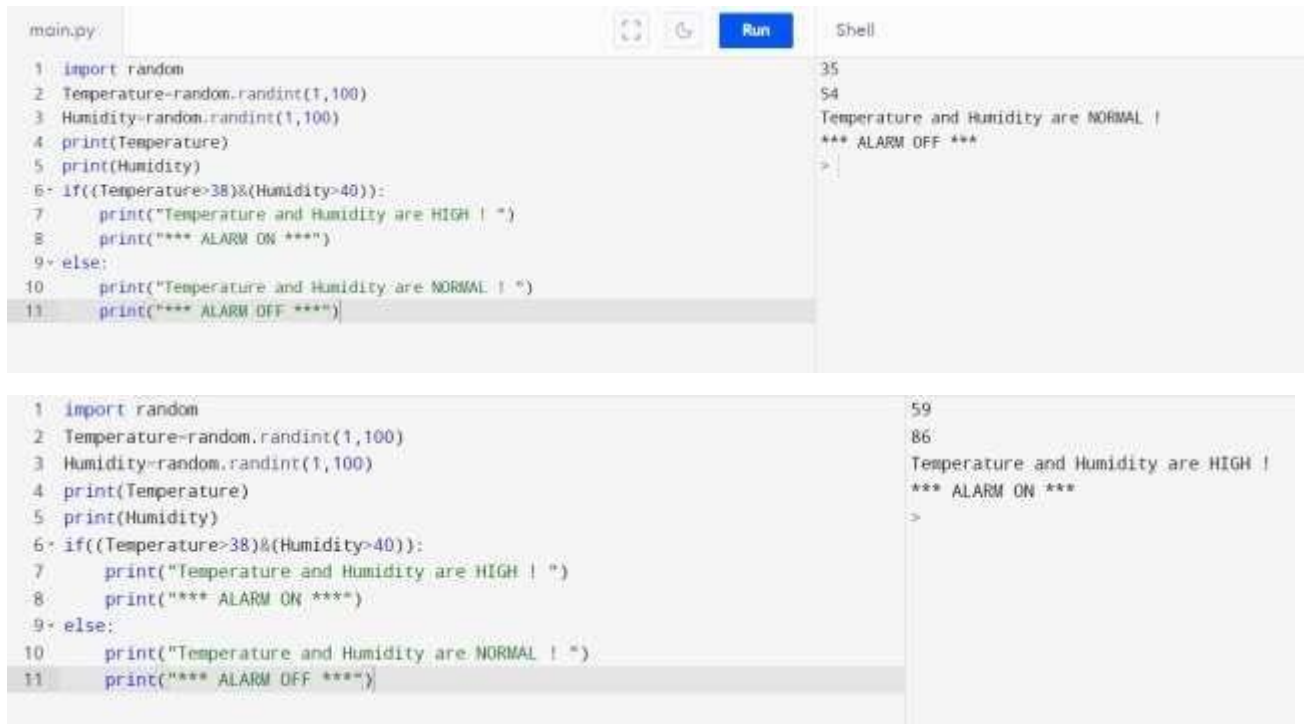
## *Assignment - 2*

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

### *Code:*

```
import random
Temperature=random.randint(1,100)
Humidity=random.randint(1,100)
print(Temperature)
print(Humidity)
if((Temperature>38)&(Humidity>40)):
    print("Temperature and Humidity are HIGH ! ")
    print("*** ALARM ON ***")
else:
    print("Temperature and Humidity are NORMAL ! ")
    print("*** ALARM OFF ***")
```

## Output:



The image displays two screenshots of a Python IDE, likely PyCharm, showing the execution of a script named 'main.py'. The script generates random temperature and humidity values and checks if they exceed 38 and 40 respectively. If they do, it prints 'Temperature and Humidity are HIGH !' and '\*\*\* ALARM ON \*\*\*'. Otherwise, it prints 'Temperature and Humidity are NORMAL !' and '\*\*\* ALARM OFF \*\*\*'.

**First Screenshot:**

```
1 import random
2 Temperature=random.randint(1,100)
3 Humidity=random.randint(1,100)
4 print(Temperature)
5 print(Humidity)
6 if((Temperature>38)&(Humidity>40)):
7     print("Temperature and Humidity are HIGH ! ")
8     print("*** ALARM ON ***")
9 else:
10    print("Temperature and Humidity are NORMAL ! ")
11    print("*** ALARM OFF ***")
```

Output (Shell):

```
35
54
Temperature and Humidity are NORMAL !
*** ALARM OFF ***
>
```

**Second Screenshot:**

```
1 import random
2 Temperature=random.randint(1,100)
3 Humidity=random.randint(1,100)
4 print(Temperature)
5 print(Humidity)
6 if((Temperature>38)&(Humidity>40)):
7     print("Temperature and Humidity are HIGH ! ")
8     print("*** ALARM ON ***")
9 else:
10    print("Temperature and Humidity are NORMAL ! ")
11    print("*** ALARM OFF ***")
```

Output (Shell):

```
59
86
Temperature and Humidity are HIGH !
*** ALARM ON ***
>
```

Done by:

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