

R M K COLLEGE OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ASSIGNMENT- II

TEAM LEADER: MOHANAMBIKAI A

TEAM MEMBER: SAIGNANASRI K

NARMADHA V

MONIKADEVI A

LOHITHA M

PROBLEM:

To 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 ! ")
```

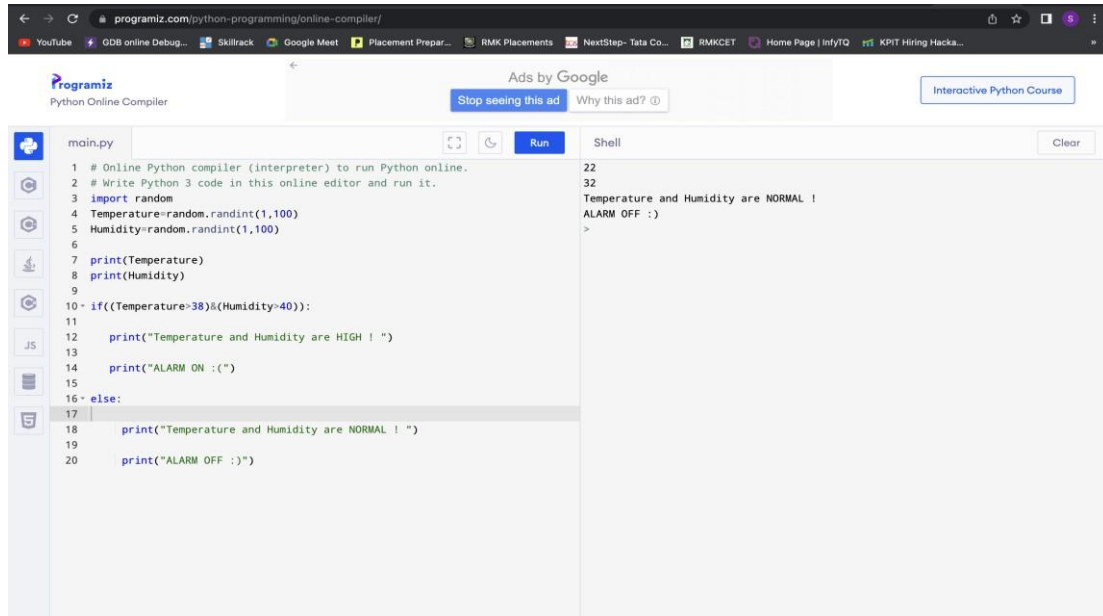
```
    print("ALARM ON :( ")
```

```
else:
```

```
    print("Temperature and Humidity are NORMAL ! ")
```

```
    print("ALARM OFF :) ")
```

OUTPUT:



The screenshot shows the Programiz Python Online Compiler interface. The browser address bar displays `programiz.com/python-programming/online-compiler/`. The page includes a Google Ad and a link to an "Interactive Python Course". The code editor on the left contains a Python script named `main.py` that generates random temperature and humidity values and checks if they are high enough to trigger an alarm. The output shell on the right shows the execution results.

```
main.py
1 # Online Python compiler (interpreter) to run Python online.
2 # Write Python 3 code in this online editor and run it.
3 import random
4 Temperature=random.randint(1,100)
5 Humidity=random.randint(1,100)
6
7 print(Temperature)
8 print(Humidity)
9
10 if((Temperature>38)&(Humidity>40)):
11
12     print("Temperature and Humidity are HIGH ! ")
13
14     print("ALARM ON :(')
15
16 else:
17
18     print("Temperature and Humidity are NORMAL ! ")
19
20     print("ALARM OFF :)")
```

Shell

```
22
32
Temperature and Humidity are NORMAL !
ALARM OFF :)
>
```