

To Get Temperature and Humidity Value and To Detect
Alarm in High Temperature

Program:

```
import random
while (True):
    temperature=random.randint(10,99)
    humidity=random.randint(10,99)
    print("Current Temperature: ",temperature)
    print("Current Humidity: ",humidity,"%")
    temperature_ref=40
    humidity_ref=45
    if temperature>temperature_ref and
humidity<humidity_ref:
        print("Alarm is ON")
    else:
        print("Alarm is OFF")
        break
```

Output:

The image displays two side-by-side screenshots of the Programiz Python Online Compiler interface, showing the execution of a Python script.

Left Screenshot (Code Editor):

- Time: 9:44 PM
- Page Title: Online Python Compiler
- Navigation: Python Course
- File: main.py
- Code:

```
1 import random
2 while (True):
3     temperature=random.randint(10,99)
4     humidity=random.randint(10,99)
5     print("Current Temperature: ",
6           ,temperature)
7     print("Current Humidity: ",humidity
8           ,"%")
9     temperature_ref=40
10    humidity_ref=45
11    if temperature>temperature_ref and
12        humidity<humidity_ref:
13        print("Alarm is ON")
14    else:
15        print("Alarm is OFF")
16    break
```

Right Screenshot (Output):

- Time: 9:19
- Page Title: Online Python Co...
- Navigation: Python Course
- File: main.py
- Shell: Shell
- Output:

```
Current Temperature: 95
Current Humidity: 32 %
Alarm is ON
Current Temperature: 78
Current Humidity: 61 %
Alarm is OFF
> |
```