

## **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 screenshot displays the Programiz Python Online Compiler interface. The top bar shows the time as 9:19 and the website as programiz.com. The main area is divided into two panels: a code editor on the left and an output shell on the right.

**Code Editor (Left Panel):**

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

**Output Shell (Right Panel):**

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

A blue "Run" button is located at the bottom right of the code editor panel.