

SETHU INSTITUTE OF TECHNOLOGY

Department of Computer Science and Engineering

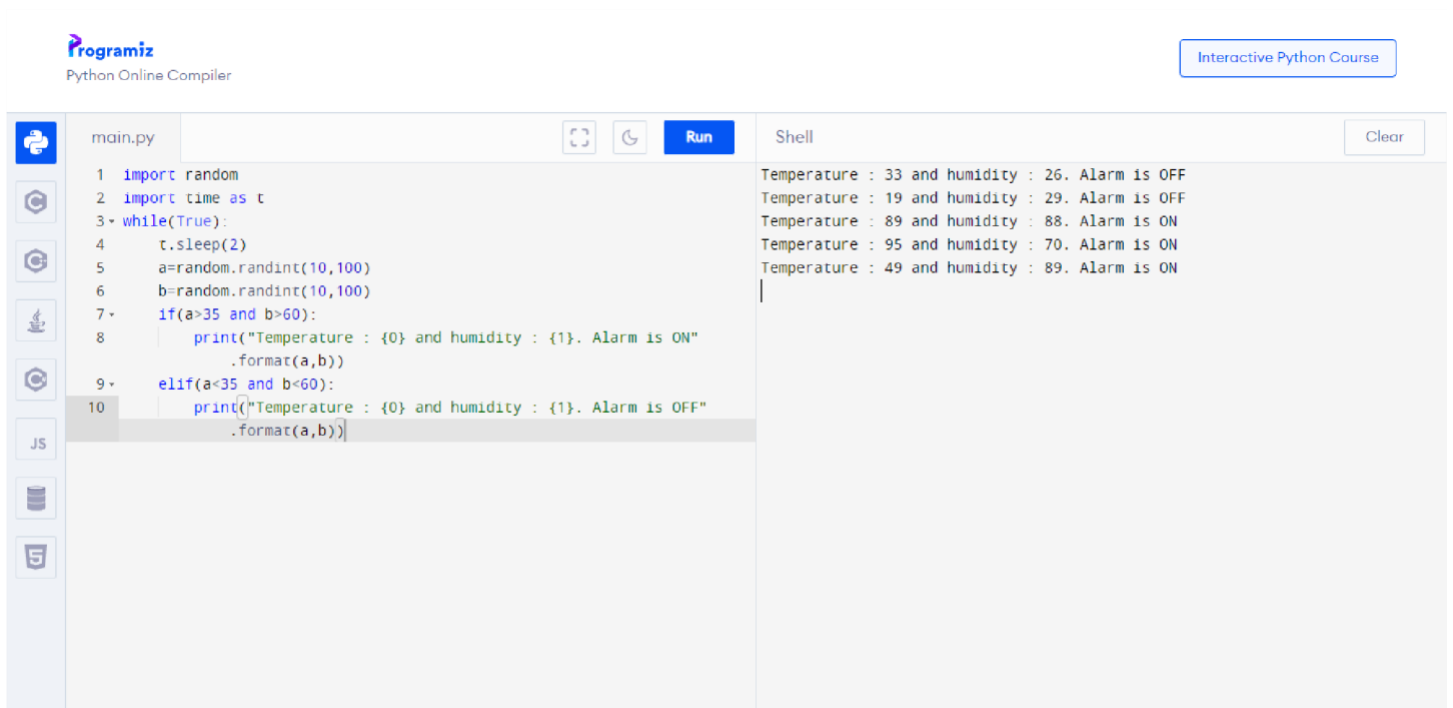
Assignment 2

Topic : Temperature_and_Humidity_sensing_alarm

Code:-

```
import random as r
import time as t
while(True):
    t.sleep(2) a=r.randint(10,100) b=r.randint(10,100) if(a>35 and b>60):
        print("Temperature : {0} and humidity : {1}. Alarm is ON".format(a,b))
    elif(a<35 and b<60): print("Temperature : {0} and humidity : {1}. Alarm is
        OFF".format(a,b))
```

OUTPUT:-



The screenshot displays the Programiz Python Online Compiler interface. The code editor on the left contains the following Python code in a file named 'main.py':

```
1 import random
2 import time as t
3 while(True):
4     t.sleep(2)
5     a=random.randint(10,100)
6     b=random.randint(10,100)
7     if(a>35 and b>60):
8         print("Temperature : {0} and humidity : {1}. Alarm is ON"
9             .format(a,b))
10    elif(a<35 and b<60):
11        print("Temperature : {0} and humidity : {1}. Alarm is OFF"
12            .format(a,b))
```

The output shell on the right shows the results of the program's execution:

```
Temperature : 33 and humidity : 26. Alarm is OFF
Temperature : 19 and humidity : 29. Alarm is OFF
Temperature : 89 and humidity : 88. Alarm is ON
Temperature : 95 and humidity : 70. Alarm is ON
Temperature : 49 and humidity : 89. Alarm is ON
```