

ASSIGNMENT 2

Build a python code, Assume u get temperature and humidity values (generated with random function to a variable) and write a condition to continuously detect alarm in case of high temperature.

PROGRAM:

```
import random
temp=random.randint(30,100)
hum=random.randint(30,100)
if (temp>58 and hum>50):
    print("Clear the area")
elif (temp>58 or hum>50):
    if (temp<58 or hum>50):
        print("Humidity is high")
    elif(temp>58 or hum<50):
        print("Temp is high")
elif(temp<58 or hum<50):
    print("everything is fine")
import random
while(True):
    a=random.randint(10,99)
    b=random.randint(10,99)
    if(a>35 and b>60):
        print("High temperature and humidity of:",a,"%",b,"% is sensed.", "\n Alarm is on")
    elif(a<35 and b<60):
        print("Normal temperature and humidity of:",a,"%",b,"% is sensed", "\n Alarm is off")
    break
```

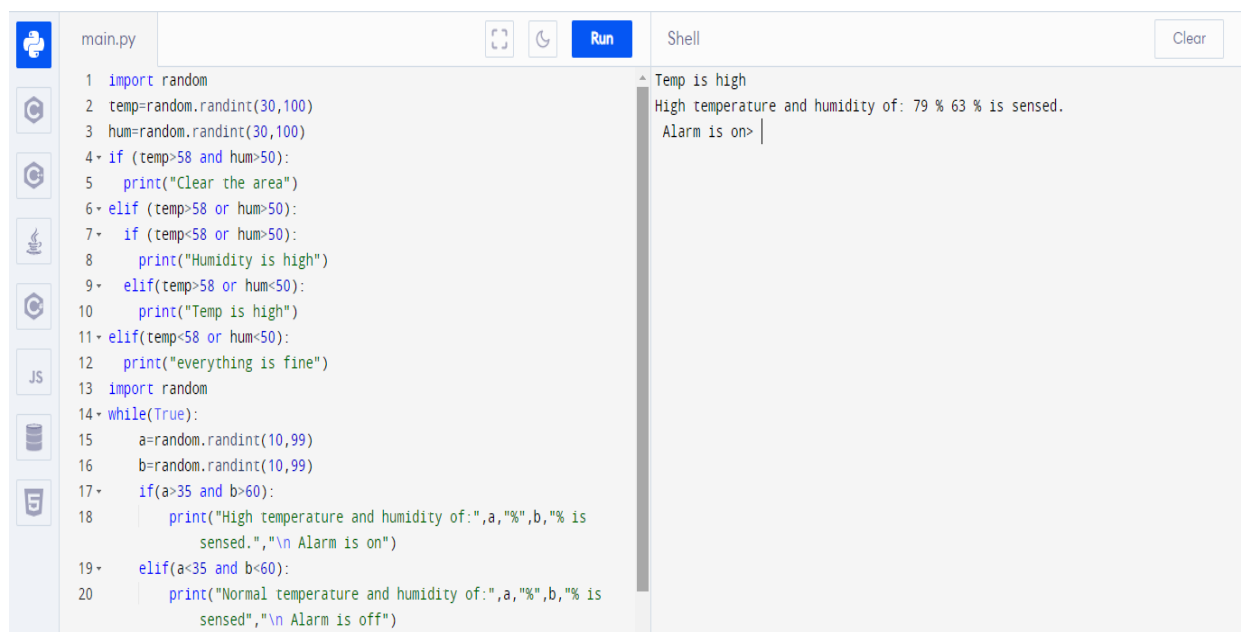
OUTPUT:

Temp is high

High temperature and humidity of: 79 % 63 % is sensed.

Alarm is on>

RESULT:



The screenshot shows a Python IDE with a file named 'main.py'. The code in the editor is as follows:

```
1 import random
2 temp=random.randint(30,100)
3 hum=random.randint(30,100)
4 if (temp>58 and hum>50):
5     print("Clear the area")
6 elif (temp>58 or hum>50):
7     if (temp<58 or hum>50):
8         print("Humidity is high")
9     elif(temp>58 or hum<50):
10        print("Temp is high")
11 elif(temp<58 or hum<50):
12     print("everything is fine")
13 import random
14 while(True):
15     a=random.randint(10,99)
16     b=random.randint(10,99)
17     if(a>35 and b>60):
18         print("High temperature and humidity of:",a,"%",b,"% is sensed.", "\n Alarm is on")
19     elif(a<35 and b<60):
20         print("Normal temperature and humidity of:",a,"%",b,"% is sensed.", "\n Alarm is off")
```

The output in the Shell window is:

```
Temp is high
High temperature and humidity of: 79 % 63 % is sensed.
Alarm is on> |
```