

ASSIGNMENT 2

Assignment Date	22 September 2022
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Maximum Marks	2 Marks

Assignment 2:

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

Python code :

```
import random
```

```
while(True):
```

```
    a=random.randint(10,100)
```

```
    b=random.randint(10,100)
```

```
    if(a>35 and b>60):
```

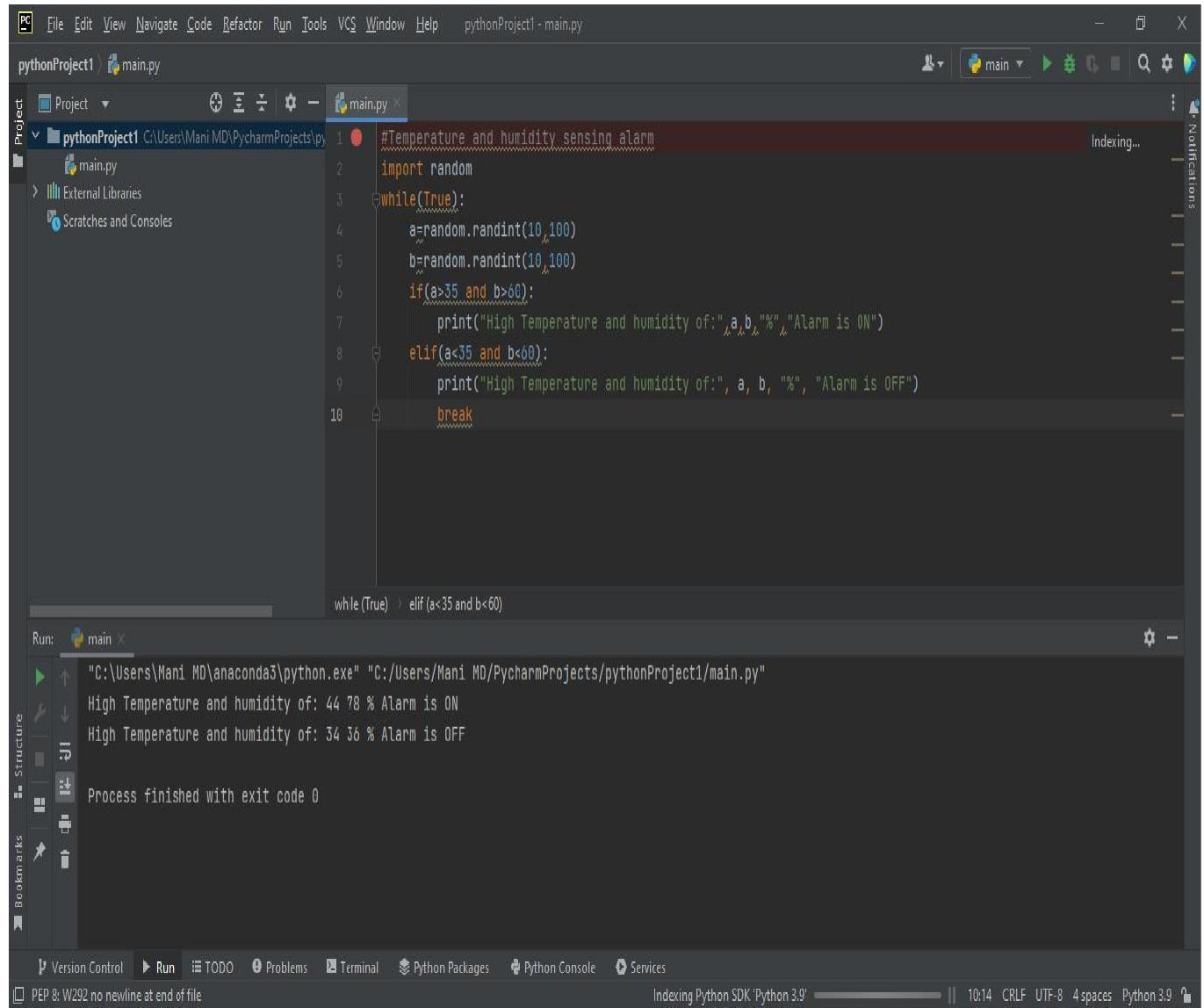
```
        print("High Temperature and humidity of:",a,b,"%","Alarm is ON")
```

```
    elif(a<35 and b<60):
```

```
        print("High Temperature and humidity of:", a, b, "%", "Alarm is OFF")
```

```
    break
```

OUTPUT:



The screenshot displays the PyCharm IDE interface. The main editor window shows a Python script named `main.py` with the following code:

```
1 #Temperature and humidity sensing alarm
2 import random
3 while(True):
4     a=random.randint(10,100)
5     b=random.randint(10,100)
6     if(a>35 and b>60):
7         print("High Temperature and humidity of:",a,b,"%","Alarm is ON")
8     elif(a<35 and b<60):
9         print("High Temperature and humidity of:", a, b, "%", "Alarm is OFF")
10    break
```

The Run window at the bottom shows the execution output:

```
Run: main x
"C:\Users\Mani MD\anaconda3\python.exe" "C:/Users/Mani MD/PycharmProjects/pythonProject1/main.py"
High Temperature and humidity of: 44 78 % Alarm is ON
High Temperature and humidity of: 34 36 % Alarm is OFF
Process finished with exit code 0
```

The status bar at the bottom indicates the file encoding is UTF-8, line endings are CRLF, and 4 spaces are used for indentation. The Python SDK is Python 3.9.