

ASSIGNMENT 2

PYTHON CODE:

```
#Temperature and humidity sensing alarm

import random

while(True):

    a=random.randint(10,100)

    b=random.randint(10,100)

    if(a>35 and b>60):

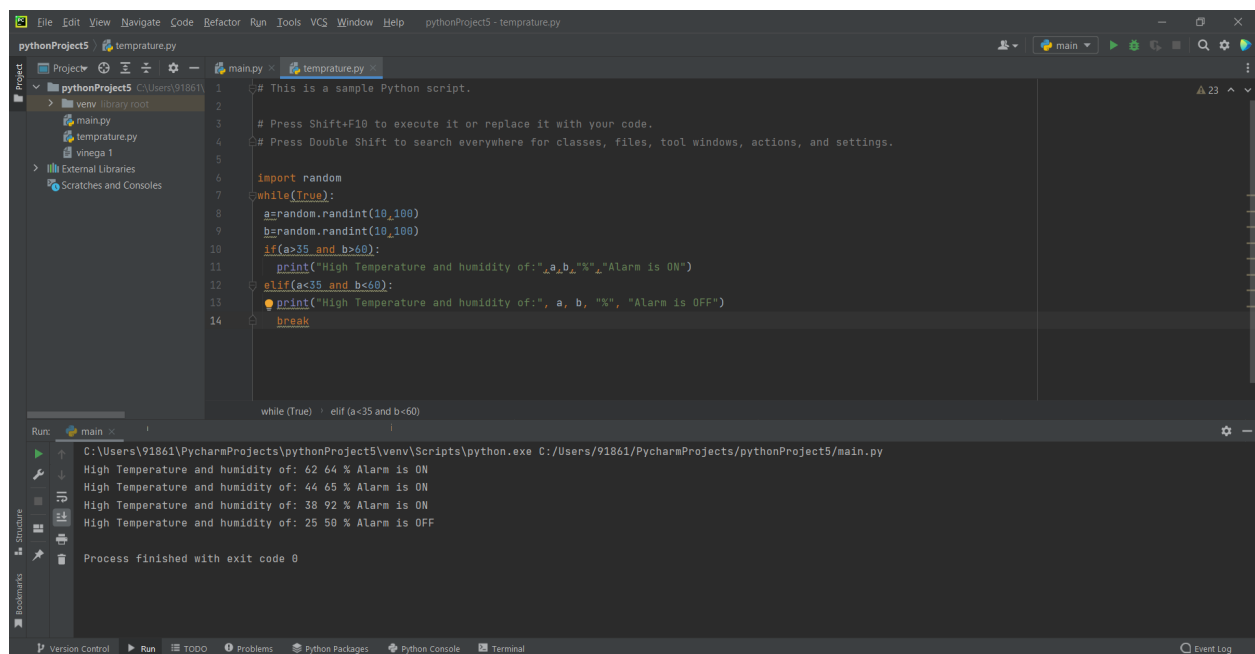
        print("High Temperature and humidity of:",a,b,"%","Alarm is ON")

    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 `temperature.py` with the following code:

```
1 # This is a sample Python script.  
2  
3 # Press Shift+F10 to execute it or replace it with your code.  
4 # Press Double Shift to search everywhere for classes, files, tool windows, actions, and settings.  
5  
6 import random  
7 while(True):  
8     a=random.randint(10,100)  
9     b=random.randint(10,100)  
10    if(a>35 and b>60):  
11        print("High Temperature and humidity of: ",a,b,"%","Alarm is ON")  
12    elif(a<35 and b<60):  
13        print("High Temperature and humidity of: ", a, b, "%", "Alarm is OFF")  
14    break
```

The Run window at the bottom shows the output of the script:

```
C:\Users\91861\PycharmProjects\pythonProject5\venv\Scripts\python.exe C:/Users/91861/PycharmProjects/pythonProject5/main.py  
High Temperature and humidity of: 62.64 % Alarm is ON  
High Temperature and humidity of: 44.65 % Alarm is ON  
High Temperature and humidity of: 38.92 % Alarm is ON  
High Temperature and humidity of: 25.58 % Alarm is OFF  
Process finished with exit code 0
```