

ASSIGNMENT-2

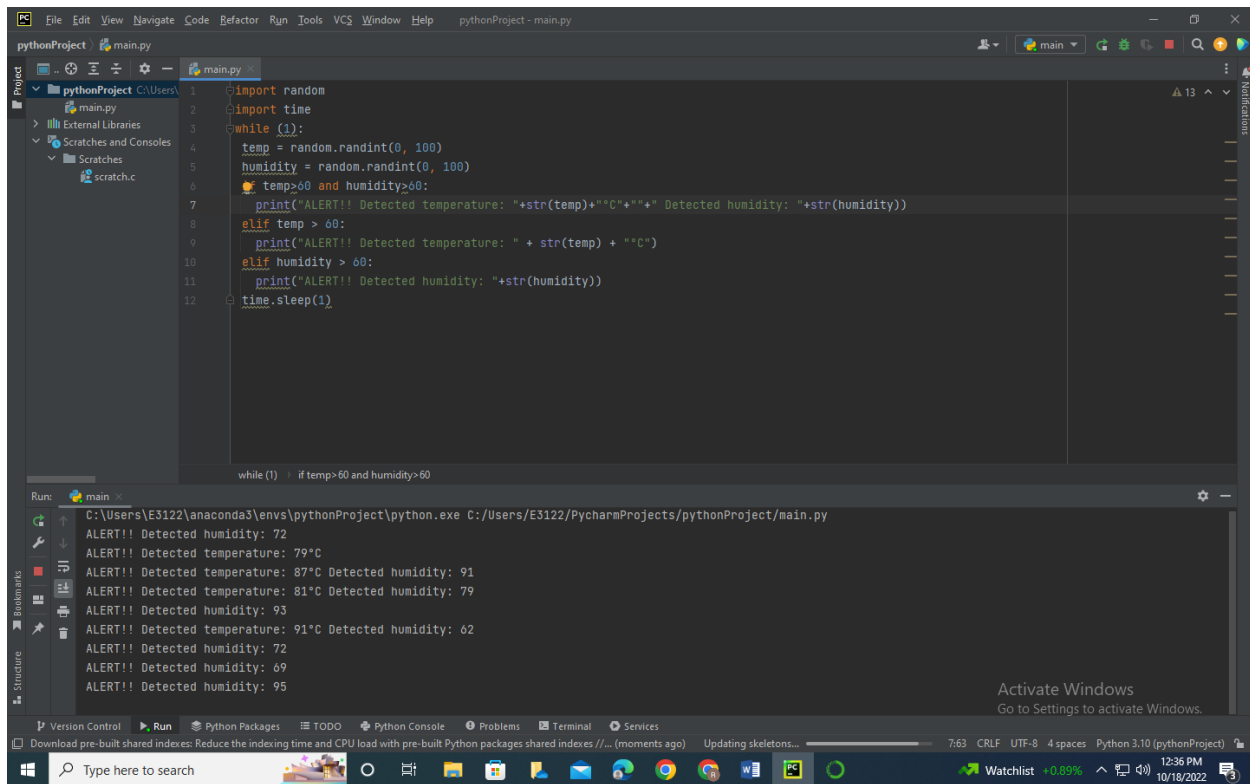
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Question-1: Build a python code, Assume u get temperature and humidity values (generated with random function to a variable) and write a condition to continuously detect alarm in case of high temperature.

Python code:

```
import random
import time
while (1):
    temp = random.randint(0, 100)
    humidity = random.randint(0, 100)
    if temp>60 and humidity>60:
        print("ALERT!! Detected temperature: "+str(temp)+"°C"+" "+ " Detected humidity: "+str(humidity))
    elif temp > 60:
        print("ALERT!! Detected temperature: " + str(temp) + "°C")
    elif humidity > 60:
        print("ALERT!! Detected humidity: "+str(humidity))
    time.sleep(1)
```



The screenshot displays the PyCharm IDE interface. The main editor window shows the Python code from the previous block. The Run console at the bottom shows the output of the program, which is a continuous loop of random values and alerts. The output is as follows:

```
Run: C:\Users\E3122\anaconda3\envs\pythonProject\python.exe C:/Users/E3122/PycharmProjects/pythonProject/main.py
ALERT!! Detected humidity: 72
ALERT!! Detected temperature: 79°C
ALERT!! Detected temperature: 87°C Detected humidity: 91
ALERT!! Detected temperature: 81°C Detected humidity: 79
ALERT!! Detected humidity: 93
ALERT!! Detected temperature: 91°C Detected humidity: 62
ALERT!! Detected humidity: 72
ALERT!! Detected humidity: 69
ALERT!! Detected humidity: 95
```

The status bar at the bottom indicates the file encoding is UTF-8, the line length is 7.63, and the Python version is 3.10.