

ASSIGNMENT-2

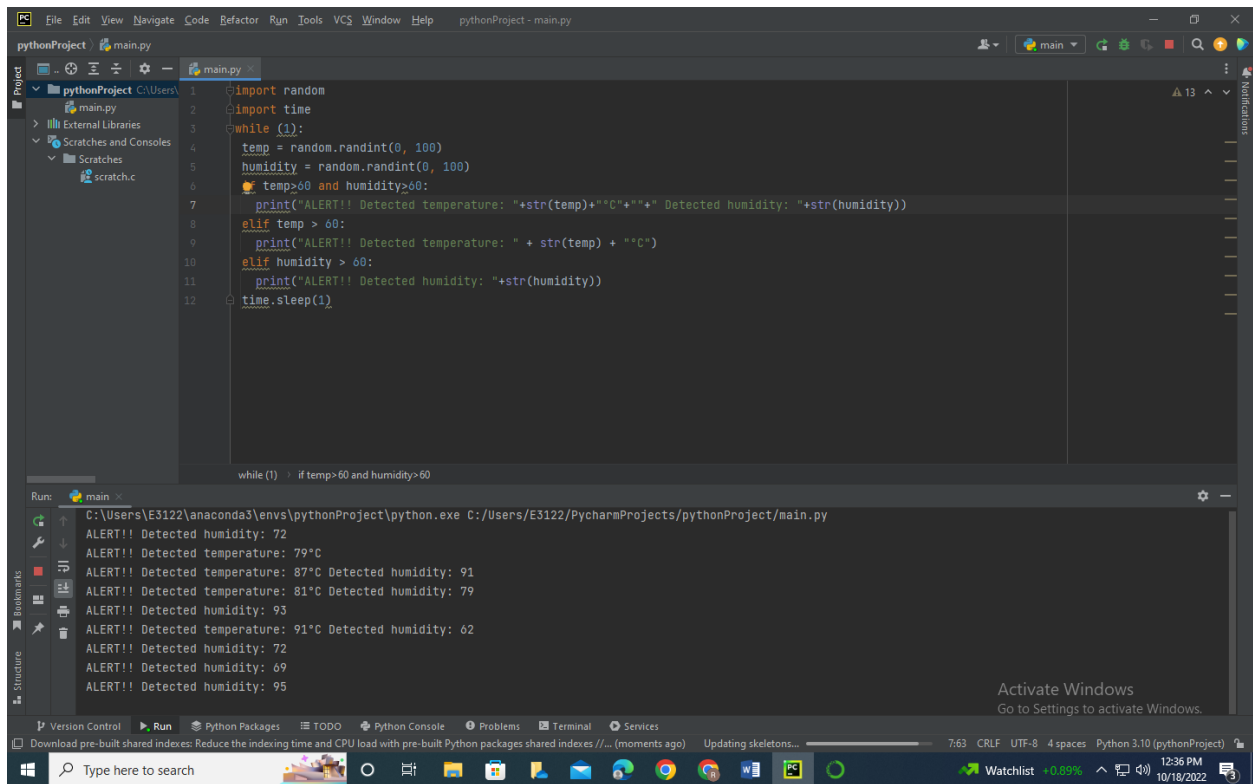
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Question-1: Build a python code, Assume u get temperature and humidity values (generated with random function to a variable) and write a condition to continuously detect alarm in case of high temperature.

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 left sidebar contains the Project, External Libraries, and Scratches and Consoles panels. The bottom panel shows the Run console output, which includes the following lines:

```
while (1) > if temp>60 and humidity>60
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 as UTF-8, 4 spaces, and Python 3.10 (pythonProject). The system tray shows the date and time as 10/10/2022, 12:36 PM.