

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 a 'Project' view showing the file structure. The bottom panel is split into a 'Run' console and a 'Terminal'. The 'Run' console shows the output of the program, which is a continuous loop of 'ALERT!!' messages with random temperature and humidity values. The 'Terminal' panel is currently empty. The status bar at the bottom indicates the file encoding as UTF-8 and the Python version as 3.10.

```
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
```