

Assignment -2

Python Programming

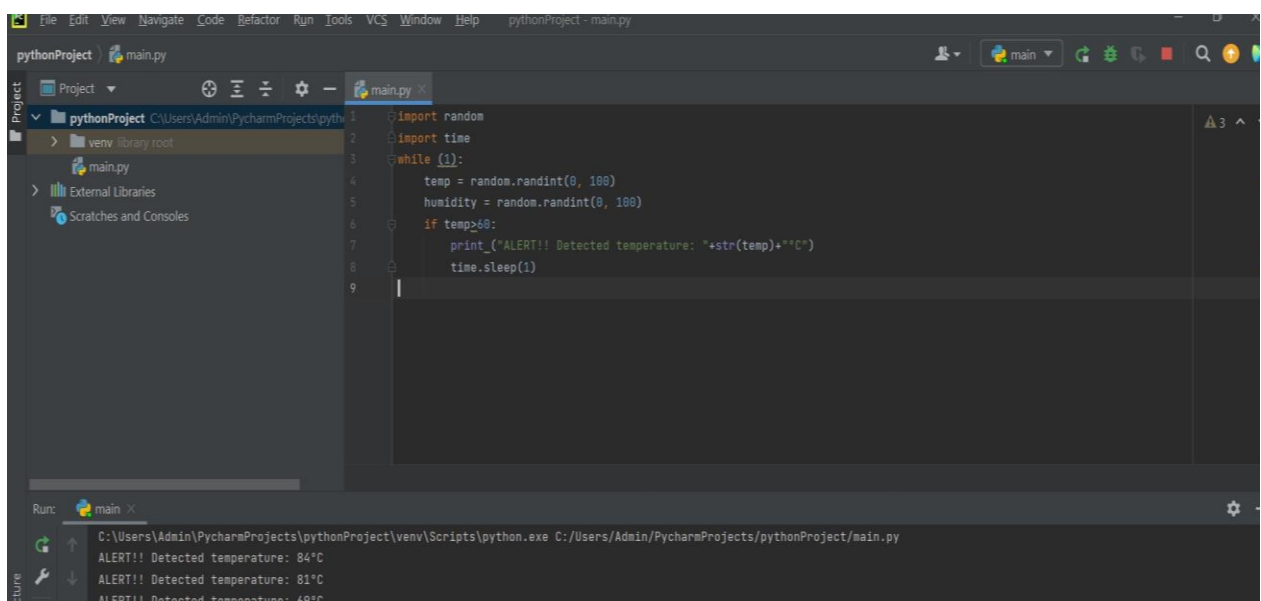
NAME	SASIKUMAR K
Maximum Marks	2 Marks

Question:

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
import time
while (1):
    temp = random.randint(0, 100)
    humidity = random.randint(0, 100)
    if temp>60:
        print ("ALERT!! Detected temperature: "+str(temp)+"°C")
        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 tool window, showing the project structure with 'pythonProject' and 'main.py'. The bottom panel shows the Run tool window, which displays the command used to run the script and the output of the program. The output shows three consecutive alerts with temperatures of 84°C, 81°C, and 69°C, demonstrating the program's functionality.

```
File Edit View Navigate Code Refactor Run Tools VCS Window Help pythonProject - main.py
pythonProject main.py
Project
  pythonProject C:\Users\Admin\PycharmProjects\pythonProject
  venv library root
  main.py
  External Libraries
  Scratches and Consoles
main.py
1 import random
2 import time
3 while (1):
4     temp = random.randint(0, 100)
5     humidity = random.randint(0, 100)
6     if temp>60:
7         print ("ALERT!! Detected temperature: "+str(temp)+"°C")
8         time.sleep(1)
9
Run: main.py
C:\Users\Admin\PycharmProjects\pythonProject\venv\Scripts\python.exe C:/Users/Admin/PycharmProjects/pythonProject/main.py
ALERT!! Detected temperature: 84°C
ALERT!! Detected temperature: 81°C
ALERT!! Detected temperature: 69°C
```

