

TASK -8

[PYTHON - MEDICORE LVL}

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QUESTION-1

 Run - pythonProjectRun:  Question-1 ✕

```
"C:\Users\JAHNAVI DINGARI\PycharmProjects\pythonProject\venv\Scripts\python.exe" "C:\Users\JAHNAVI DINGARI\PycharmProjects\pythonProject\Question-1.py"
```

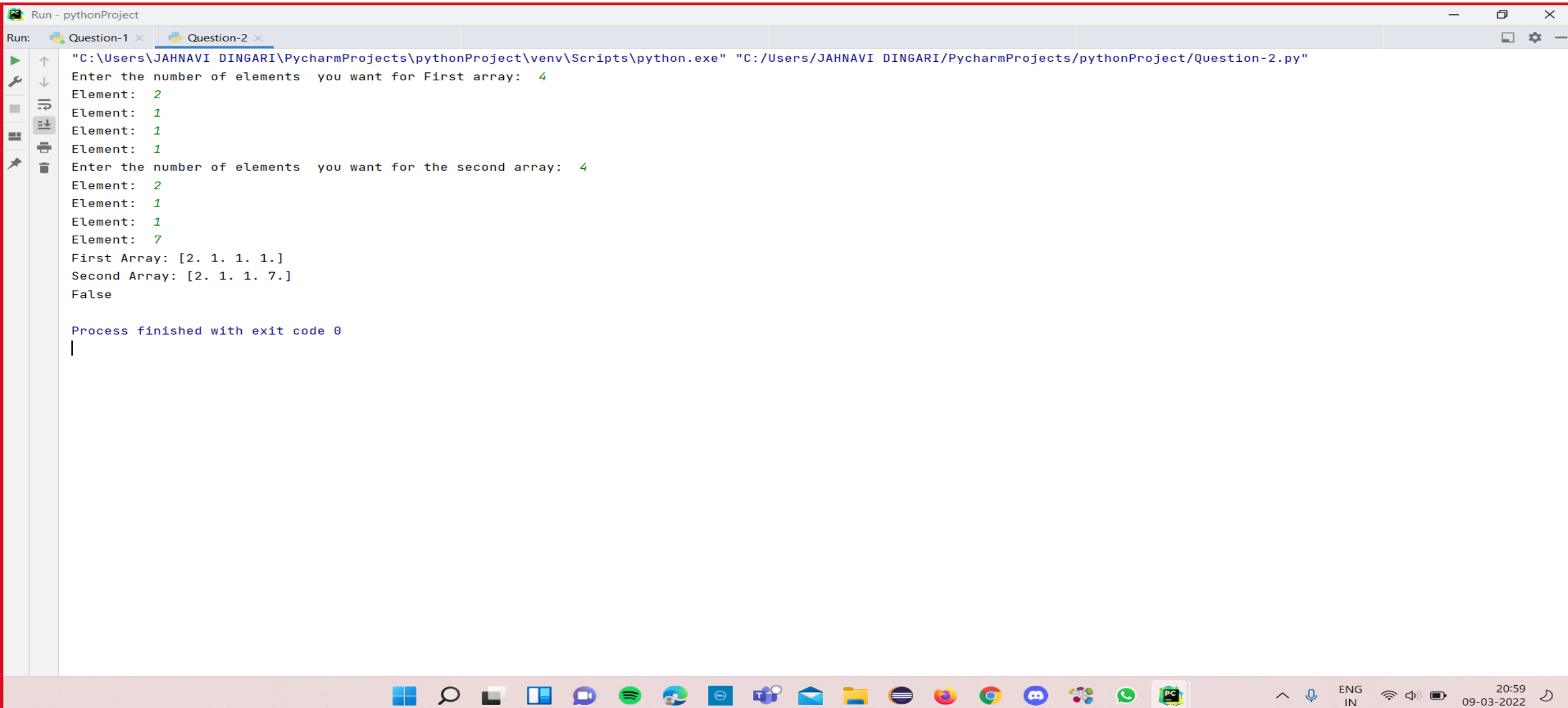
First Number:7

Last Number:11

```
[ 7.  0.  0.  0.  0.  0.  8.  0.  0.  0.  0.  0.  9.  0.  0.  0.  0.  0.
 10.  0.  0.  0.  0.  0. 11.]
```

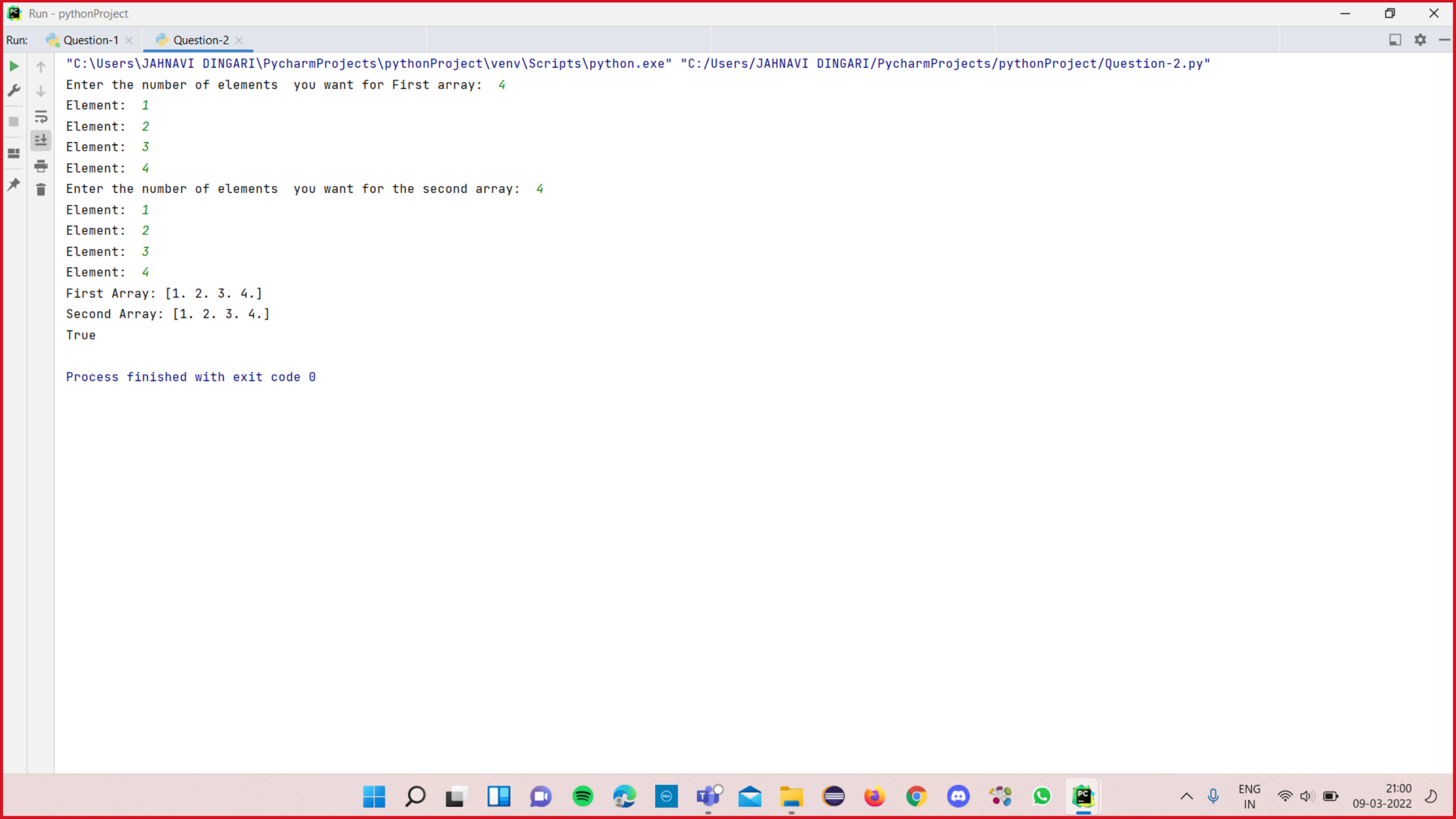
```
Process finished with exit code 0
```

QUESTION -2



```
Run - pythonProject
Run: Question-1 x Question-2 x
"C:\Users\JAHNAVI DINGARI\PycharmProjects\pythonProject\venv\Scripts\python.exe" "C:/Users/JAHNAVI DINGARI/PycharmProjects/pythonProject/Question-2.py"
Enter the number of elements you want for First array: 4
Element: 2
Element: 1
Element: 1
Element: 1
Enter the number of elements you want for the second array: 4
Element: 2
Element: 1
Element: 1
Element: 7
First Array: [2. 1. 1. 1.]
Second Array: [2. 1. 1. 7.]
False

Process finished with exit code 0
|
```



```
Run - pythonProject
Question-1 x Question-2 x
"C:\Users\JAHNAVI DINGARI\PycharmProjects\pythonProject\venv\Scripts\python.exe" "C:/Users/JAHNAVI DINGARI/PycharmProjects/pythonProject/Question-2.py"
Enter the number of elements you want for First array: 4
Element: 1
Element: 2
Element: 3
Element: 4
Enter the number of elements you want for the second array: 4
Element: 1
Element: 2
Element: 3
Element: 4
First Array: [1. 2. 3. 4.]
Second Array: [1. 2. 3. 4.]
True

Process finished with exit code 0
```

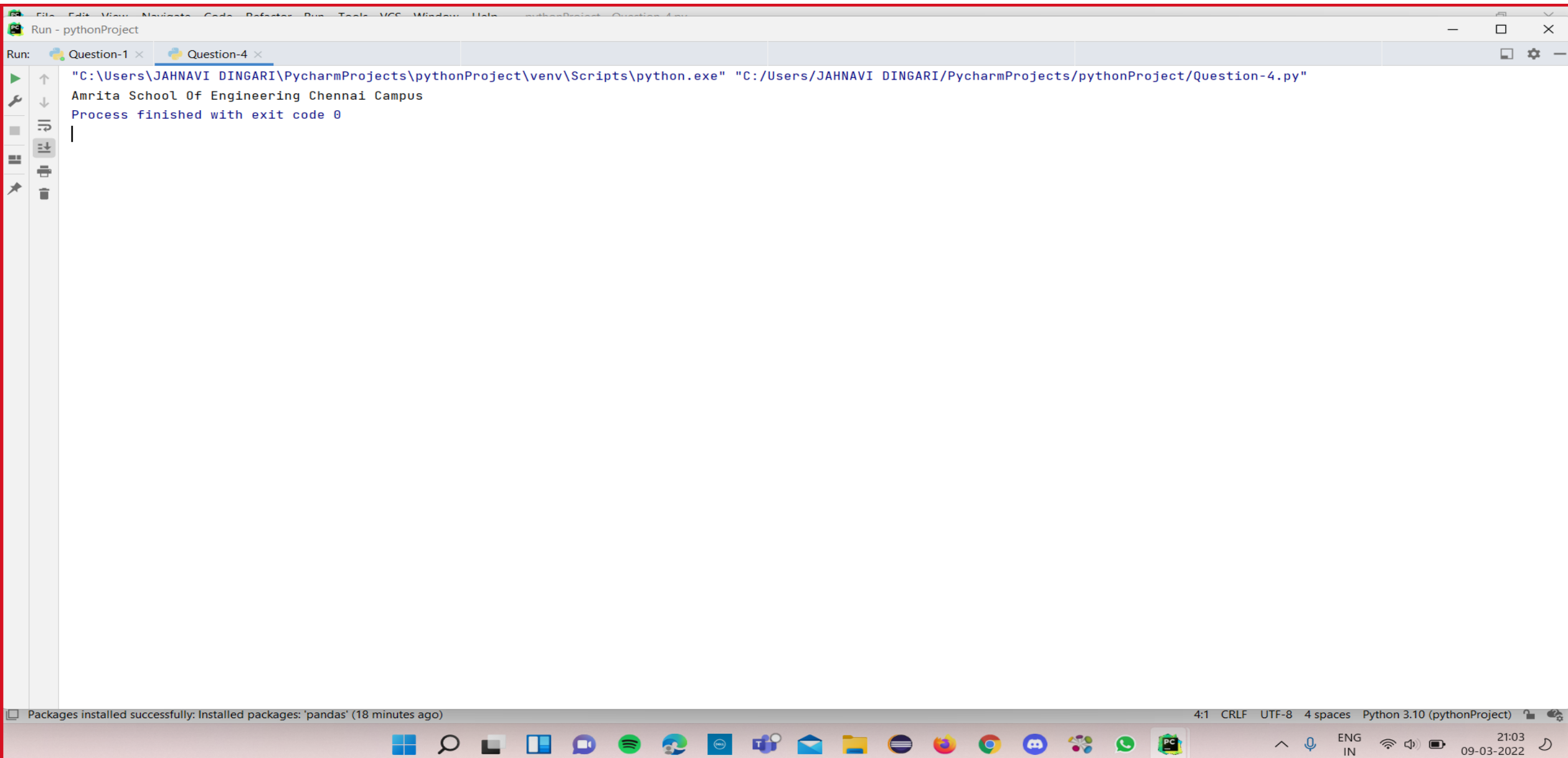
QUESTION-3



The image shows a PyCharm Run console window for a project named 'pythonProject'. The window has a title bar with standard Windows window controls. Below the title bar, there are two tabs: 'Question-1' and 'Question-3', with 'Question-3' being the active tab. The console output shows the execution of a Python script, with the command line: `"C:\Users\JAHNAVI DINGARI\PycharmProjects\pythonProject\venv\Scripts\python.exe" "C:/Users/JAHNAVI DINGARI/PycharmProjects/pythonProject/Question-3.py"`. The output consists of five lines: `nan`, `True`, `False`, `nan`, and `False`. At the bottom, it states `Process finished with exit code 0`. On the left side of the console, there is a vertical toolbar with icons for running, debugging, and other actions. The bottom of the image shows a Windows taskbar with various application icons and system tray icons.

```
Run - pythonProject
Run: Question-1 × Question-3 ×
"C:\Users\JAHNAVI DINGARI\PycharmProjects\pythonProject\venv\Scripts\python.exe" "C:/Users/JAHNAVI DINGARI/PycharmProjects/pythonProject/Question-3.py"
nan
True
False
nan
False
Process finished with exit code 0
```

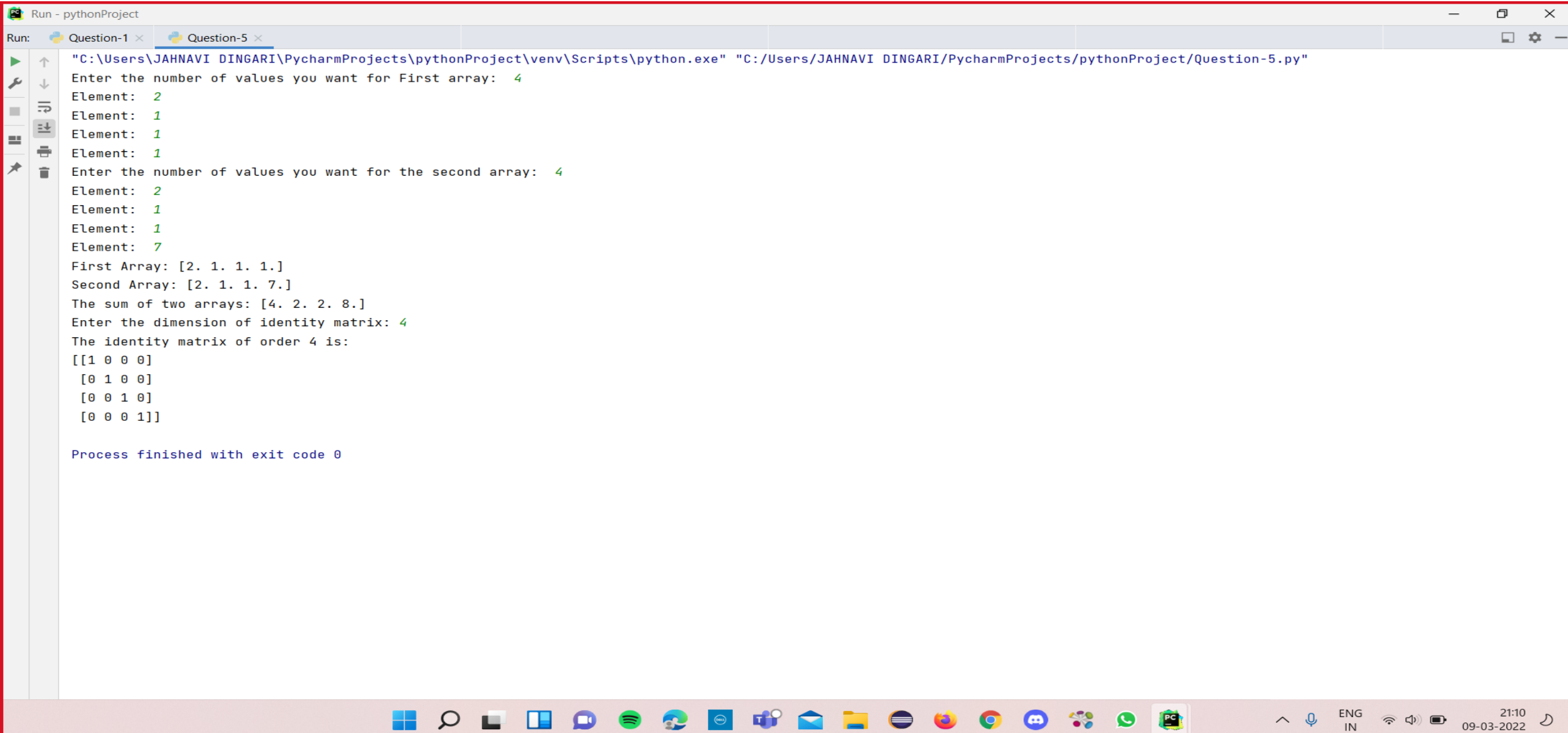
QUESTION-4



The screenshot displays the PyCharm IDE interface. The top menu bar includes File, Edit, View, Navigate, Code, Refactor, Run, Tools, VCS, Window, and Help. The title bar shows 'Run - pythonProject'. Below the menu bar, there are two tabs: 'Question-1' and 'Question-4'. The 'Run' window is active, showing the command: `"C:\Users\JAHNAVI DINGARI\PycharmProjects\pythonProject\venv\Scripts\python.exe" "C:/Users/JAHNAVI DINGARI/PycharmProjects/pythonProject/Question-4.py"`. The output of the script is: `Amrita School Of Engineering Chennai Campus` followed by `Process finished with exit code 0`. The status bar at the bottom indicates 'Packages installed successfully: Installed packages: 'pandas' (18 minutes ago)', '4:1 CRLF UTF-8 4 spaces Python 3.10 (pythonProject)', and the system clock shows '21:03 09-03-2022'.

```
File Edit View Navigate Code Refactor Run Tools VCS Window Help pythonProject - Question-4.py
Run - pythonProject
Run: Question-1 x Question-4 x
"C:\Users\JAHNAVI DINGARI\PycharmProjects\pythonProject\venv\Scripts\python.exe" "C:/Users/JAHNAVI DINGARI/PycharmProjects/pythonProject/Question-4.py"
Amrita School Of Engineering Chennai Campus
Process finished with exit code 0
|
Packages installed successfully: Installed packages: 'pandas' (18 minutes ago) 4:1 CRLF UTF-8 4 spaces Python 3.10 (pythonProject) 21:03 09-03-2022
```

QUESTION-5



```
Run - pythonProject
Question-1 x Question-5 x
"C:\Users\JAHNAVI DINGARI\PycharmProjects\pythonProject\venv\Scripts\python.exe" "C:/Users/JAHNAVI DINGARI/PycharmProjects/pythonProject/Question-5.py"
Enter the number of values you want for First array: 4
Element: 2
Element: 1
Element: 1
Element: 1
Enter the number of values you want for the second array: 4
Element: 2
Element: 1
Element: 1
Element: 7
First Array: [2. 1. 1. 1.]
Second Array: [2. 1. 1. 7.]
The sum of two arrays: [4. 2. 2. 8.]
Enter the dimension of identity matrix: 4
The identity matrix of order 4 is:
[[1 0 0 0]
 [0 1 0 0]
 [0 0 1 0]
 [0 0 0 1]]

Process finished with exit code 0
```

The screenshot shows a PyCharm IDE window with a Run console. The console output shows the execution of a Python script. The user is prompted to enter the number of values for the first array (4) and the second array (4). The user then enters elements for each array. The first array elements are 2, 1, 1, 1. The second array elements are 2, 1, 1, 7. The program then calculates the sum of the two arrays, resulting in [4. 2. 2. 8.]. The user is then prompted to enter the dimension of an identity matrix (4). The program then prints the identity matrix of order 4, which is a 4x4 matrix with 1s on the diagonal and 0s elsewhere. The process finishes with exit code 0.