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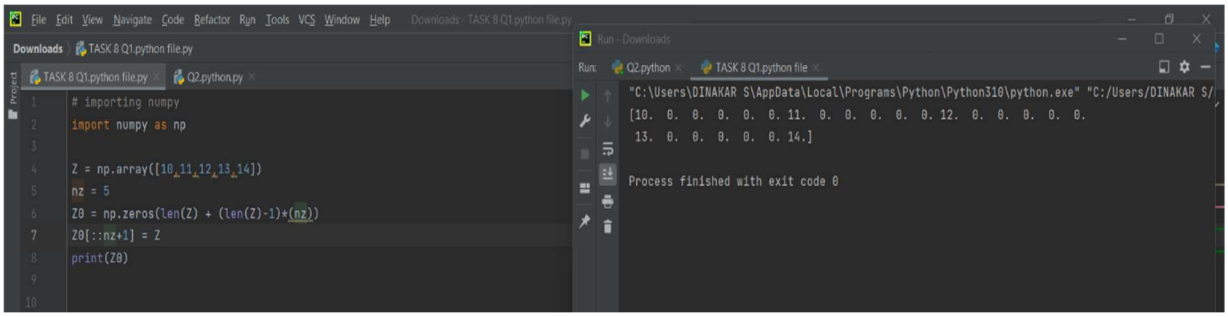
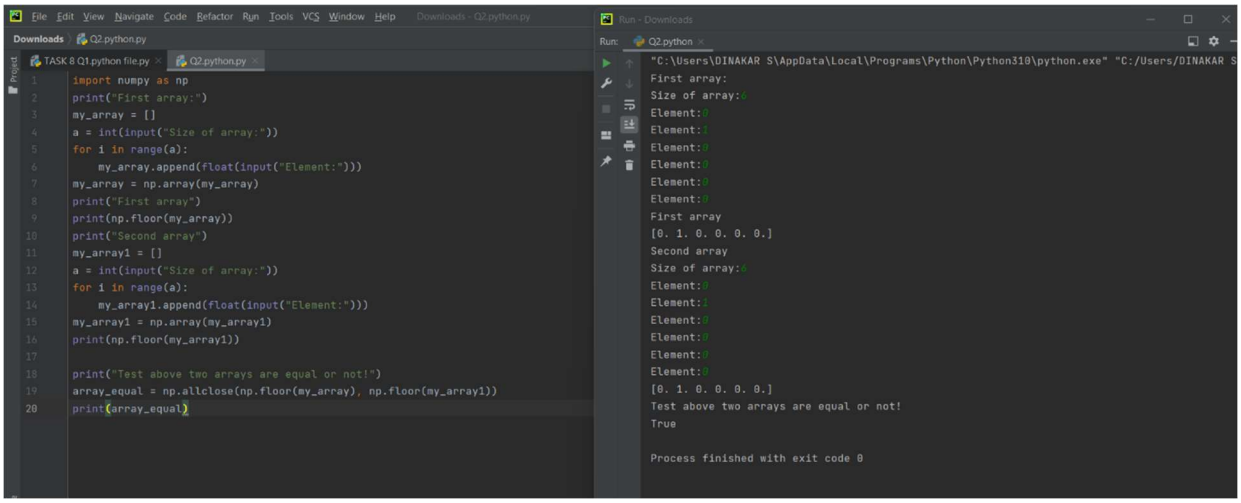
# TASK -8

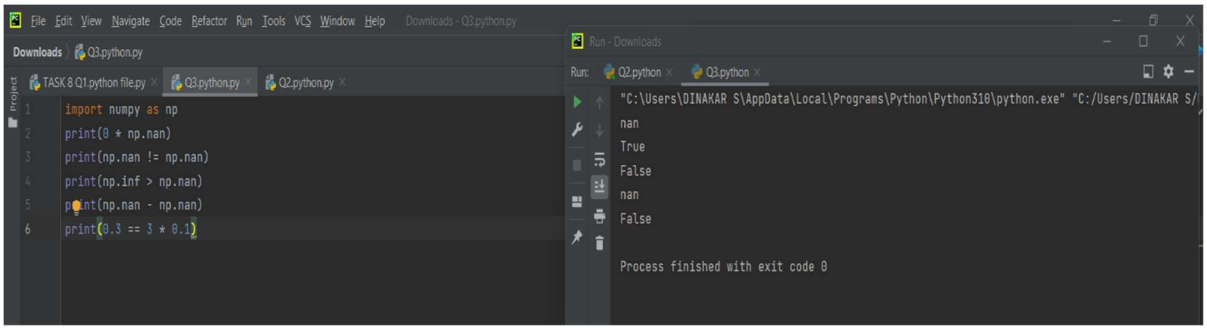
## Q1



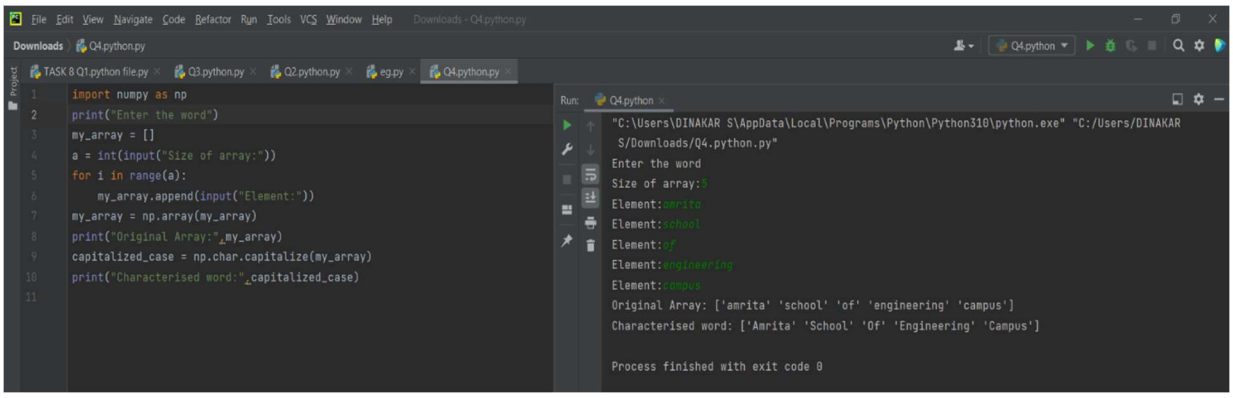

## Q2




## Q3



# Q4

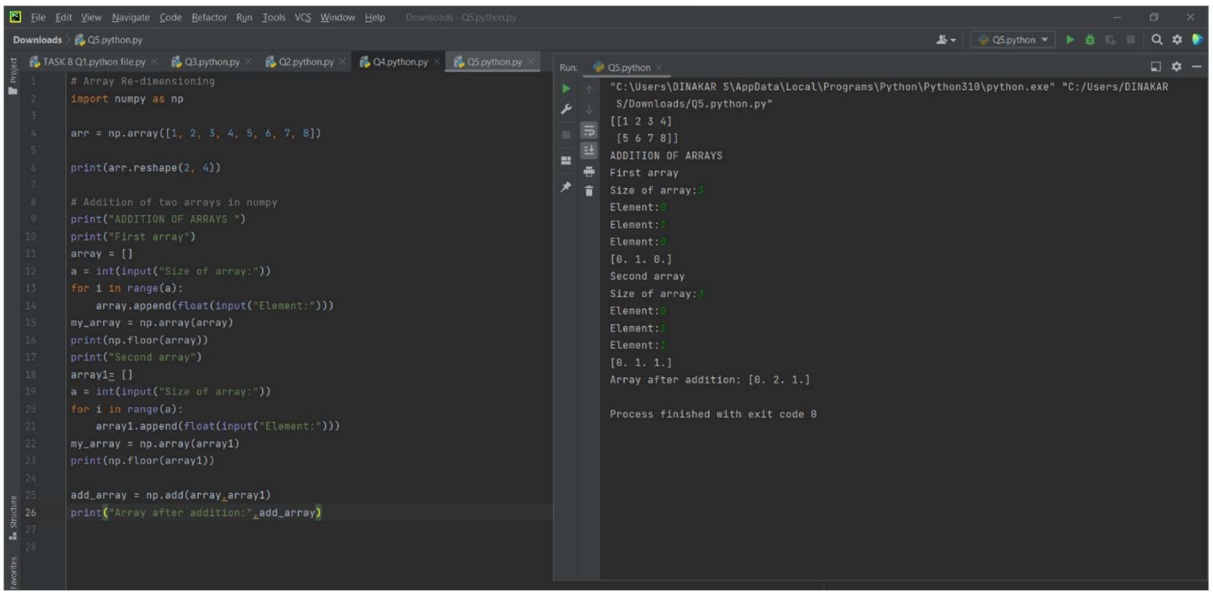


```
import numpy as np
print("Enter the word")
my_array = []
a = int(input("Size of array:"))
for i in range(a):
    my_array.append(input("Element:"))
my_array = np.array(my_array)
print("Original Array:",my_array)
capitalized_case = np.char.capitalize(my_array)
print("Characterised word:",capitalized_case)
```

```
"C:\Users\DINAKAR S\AppData\Local\Programs\Python\Python310\python.exe" "C:/Users/DINAKAR
 S/Downloads/Q4.python.py"
Enter the word
Size of array:5
Element:amrita
Element:school
Element:of
Element:engineering
Element:campus
Original Array: ['amrita' 'school' 'of' 'engineering' 'campus']
Characterised word: ['Amrita' 'School' 'Of' 'Engineering' 'Campus']

Process finished with exit code 0
```

# Q5



```
# Array Re-dimensioning
import numpy as np

arr = np.array([1, 2, 3, 4, 5, 6, 7, 8])

print(arr.reshape(2, 4))

# Addition of two arrays in numpy
print("ADDITION OF ARRAYS ")
print("First array")
array = []
a = int(input("Size of array:"))
for i in range(a):
    array.append(float(input("Element:")))
my_array = np.array(array)
print(np.floor(array))
print("Second array")
array1= []
a = int(input("Size of array:"))
for i in range(a):
    array1.append(float(input("Element:")))
my_array = np.array(array1)
print(np.floor(array1))

add_array = np.add(array,array1)
print("Array after addition:",add_array)
```

```
"C:\Users\DINAKAR S\AppData\Local\Programs\Python\Python310\python.exe" "C:/Users/DINAKAR
 S/Downloads/Q5.python.py"
[[1 2 3 4]
 [5 6 7 8]]
ADDITION OF ARRAYS
First array
Size of array:3
Element:0
Element:1
Element:0
[0. 1. 0.]
Second array
Size of array:3
Element:0
Element:1
Element:1
[0. 1. 1.]
Array after addition: [0. 2. 1.]

Process finished with exit code 0
```