



COGNIZANCE 2022

Task-3



JUNE 19, 2022
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Q1:

```
PS D:\Codes\Cognizance2022\Cognizance\Task-3> python -u "d:\Codes\Cognizance2022\Cognizance\Task-3\q1.py"
First Number: 10
Second Number: 14
The initialized Vector is: [10. 11. 12. 13. 14.]
The new vector is: [10.  0.  0.  0.  0.  0. 11.  0.  0.  0.  0.  0. 12.  0.  0.  0.  0.  0.
 13.  0.  0.  0.  0.  0. 14.]
PS D:\Codes\Cognizance2022\Cognizance\Task-3> |
```

Q2:

```
PS D:\Codes\Cognizance2022\Cognizance\Task-3> python -u "d:\Codes\Cognizance2022\Cognizance\Task-3\q2.py"
First Array:
[1 0 0 0 1 0]
Second Array:
[0 0 1 1 0 1]
False
```

Q3:

```
PS D:\Codes\Cognizance2022\Cognizance\Task-3> python -u "d:\Codes\Cognizance2022\Cognizance\Task-3\q3.py"
nan
True
False
nan
False
```

Q4:

```
PS D:\Codes\Cognizance2022\Cognizance\Task-3> python -u "d:\Codes\Cognizance2022\Cognizance\Task-3\q4.py"
Before capitalization:
0      amrita
1      school
2      of
3      engineering
4      chennai
5      campus
dtype: object
After capitalization:
0      Amrita
1      School
2      Of
3      Engineering
4      Chennai
5      Campus
dtype: object
```

Q5a (1):

```
PS D:\Codes\Cognizance2022\Cognizance\Task-3> python -u "d:\Codes\Cognizance2022\Cognizance\Task-3\q5a.py"
Array 1:
[[1 2 3]
 [4 5 6]
 [7 8 9]]
Array 2:
[[5 6 7]
 [2 3 4]
 [1 8 9]]
The sum of the arrays is:
[[ 6  8 10]
 [ 6  8 10]
 [ 8 16 18]]
```

Q5b (4):

```
PS D:\Codes\Cognizance2022\Cognizance\Task-3> python -u "d:\Codes\Cognizance2022\Cognizance\Task-3\q5b.py"
[[1 2 3]
 [4 5 6]
 [7 8 9]]
int32
[[1. 2. 3.]
 [4. 5. 6.]
 [7. 8. 9.]]
float32
[[1 2 3]
 [4 5 6]
 [7 8 9]]
int8
[[1 2 3]
 [4 5 6]
 [7 8 9]]
int64
[[1. 2. 3.]
 [4. 5. 6.]
 [7. 8. 9.]]
float64
PS D:\Codes\Cognizance2022\Cognizance\Task-3> |
```