COGNIZANCE TASK-8

DONE BY:

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PYTHON - MEDICORE LVL OUTPUT SCREENSHOTS IN ONE PDF

QUESTION-1

```
ENTER NUMBER OF ELEMENTS TO BE ADDED TO ARRAY : 5
ENTER THE ELEMENTS TO BE ADDED :
11
22
33
44
55
[11, 22, 33, 44, 55]
Original array:
[11 22 33 44 55]

New array:
[11.  0.  0.  0.  0.  0. 22.  0.  0.  0.  0.  0. 33.  0.  0.  0.  0.  0.
 44.  0.  0.  0.  0.  0. 55.]
```

QUESTION-2

```
ENTER NUMBER OF ELEMENTS TO BE ADDED TO ARRAY : 3
ENTER THE ELEMENTS TO BE ADDED :
2
4
5
[2, 4, 5]
ENTER NUMBER OF ELEMENTS TO BE ADDED TO ARRAY : 3
ENTER THE ELEMENTS TO BE ADDED :
2
4
5
[2, 4, 5]
First array:
[2 4 5]
Second array:
[2 4 5]
Are above two arrays are equal! :
True
```

QUESTION-3 CASE-1
BY ADDING NUMPY

```
nan
True
False
nan
False
```

QUESTION-3 CASE-2
WITHOUT ADDING NUMPY

```
Traceback (most recent call last):
  File "main.py", line 1, in <module>
    print(0 * np.nan)
NameError: name 'np' is not defined
```

QUESTION-4

```
ENTER THE NUMBER OF ELEMENTS TO BE ADDED IN LIST : 6
amrita
school
of
engineering
chennai
campus
['amrita', 'school', 'of', 'engineering', 'chennai', 'campus']
THE CAPITALIZED FORM :
>
```

QUESTION-5 EXERCISE-1
ADDING TWO ARRAYS

```
EXERCISE TO ADD TWO ARRAYS
ENTER NUMBER OF ELEMENTS TO BE ADDED TO ARRAY-1 : 3
ENTER THE ELEMENTS TO BE ADDED :
3
4
5
[3, 4, 5]
ENTER NUMBER OF ELEMENTS TO BE ADDED TO ARRAY-2 : 3
ENTER THE ELEMENTS TO BE ADDED :
6
7
8
[6, 7, 8]
1st Input array :  [3 4 5]
2nd Input array :  [6 7 8]
ANSWER AFTER ADDING TWO ARRAY :  [ 9 11 13]
```

QUESTION-5 EXERCISE-2
MULTIPLYING TWO MATRIX

```
ENTER THE VALUES FOR FIRST MATRIX
Enter the number of rows needed :3
Enter the number of columns needed :3
Enter the entries row wise :
3
4
5
6
7
8
9
1
2
3 4 5
6 7 8
9 1 2

ENTER THE VALUES FOR SECOND MATRIX
Enter the number of rows needed :3
Enter the number of columns needed :3
Enter the entries rowwise:
4
5
3
2
1
6
7
8
9
4 5 3
2 1 6
7 8 9

ANSWER AFTER MULTIPLYING THE ABOVE TWO MATRIX
[55, 59, 78]
[94, 101, 132]
[52, 62, 51]
```