

COGNIZANCE TASK-8-OUTPUTS

SIDDHARTH-S

QUESTION-1

```
Enter First Number:
```

```
10
```

```
Enter Second Number:
```

```
14
```

```
Original Vector:
```

```
[10 11 12 13 14]
```

```
Vector after insertion of zeros
```

```
[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. 0. 0. 0. 0. 0.]
```

```
PS D:\Sid\Programming2> 
```

QUESTION-2

```
Generating First Array:  
[6 6 6 5]  
  
Generating Second Array:  
[5 5 6 6]  
  
Equality Condition:  
False  
PS D:\Sid\Programming2> python
```

```
Generating First Array:  
[6 5 5 5]  
  
Generating Second Array:  
[6 5 5 5]  
  
Equality Condition:  
True  
PS D:\Sid\Programming2>
```

QUESTION-3

```
PS D:\Sid\Programming2> python -u "d:\Sid\Programming2\Python\Question3.py"  
nan  
True  
False  
nan  
False
```

QUESTION-4

```
PS D:\Sid\Programming2> python "d:\Sid\Programming2\Python\Question4.py"  
Amrita School Of Engineering  
PS D:\Sid\Programming2>
```

QUESTION-5

ADDITION OF TWO NUMPY ARRAYS

First Array:

```
[ 19  42  63 107]
```

Second Array:

```
[ 25 -36  45 -107]
```

Sum of given two numpy arrays:

```
[ 44   6 108   0]
```

MULTIPLICATION OF TWO MATRICES

First Matrix:

```
[[ 3  7 11]  
 [ 9 -2  3]  
 [ 2  6 -10]]
```

Second Matrix:

```
[[ -12  1  1]  
 [  8  4  3]  
 [  5 13 14]]
```

Product of given two matrices:

```
[[ 75 174 178]  
 [-109  40  45]  
 [-26 -104 -120]]
```

PS D:\Sid\Programming2> █