

# **COGNIZANCE**

## **TASK 8**

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## QUESTION 1:

```
Enter the first number 11
Enter the second number 14
vector with 5 consecutive zeros interleaved between each value
11. 0. 0. 0. 0. 0.12. 0. 0. 0. 0. 0.13. 0. 0. 0. 0. 0.14
```

## QUESTION 2:

```
First array:
[2 1 1 2 3]
Second array:
[1 1 1 0 2]
above two arrays are equal :
False
```

## QUESTION 3:

```
1.0 2.0 3.0 4.0 5.0 6.0
nan
True
False
nan
False

Process finished with exit code 0
```

## QUESTION 4:

```
if __name__ == '__main__':  
    main()  
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Process finished with exit code 0
```

## QUESTION 5 :

```
matrix 1 :  
[[1 4 7]  
 [2 5 8]]  
matrix 2 :  
[[1 4]  
 [2 5]  
 [3 6]]  
The multiplication of m1 and m2 is :  
[[30 66]  
 [36 81]]
```

```
Enter the dimension of identity matrix: 5  
the identity matrix is  
[[1 0 0 0 0]  
 [0 1 0 0 0]  
 [0 0 1 0 0]  
 [0 0 0 1 0]  
 [0 0 0 0 1]]
```