Task - 8

[PYTHON - MEDIOCRE LVL]

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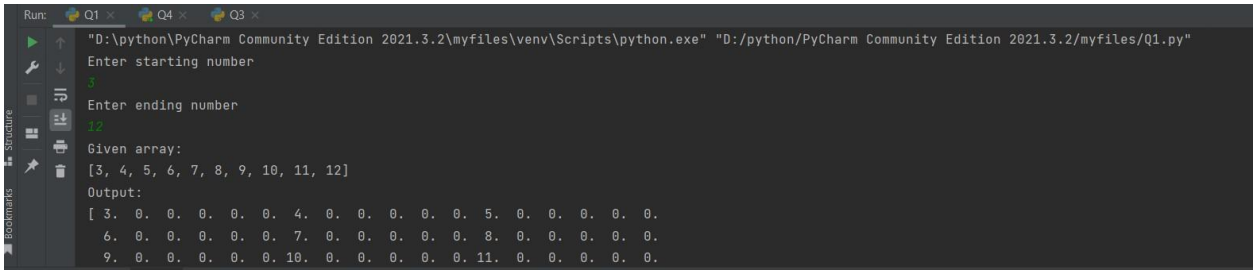
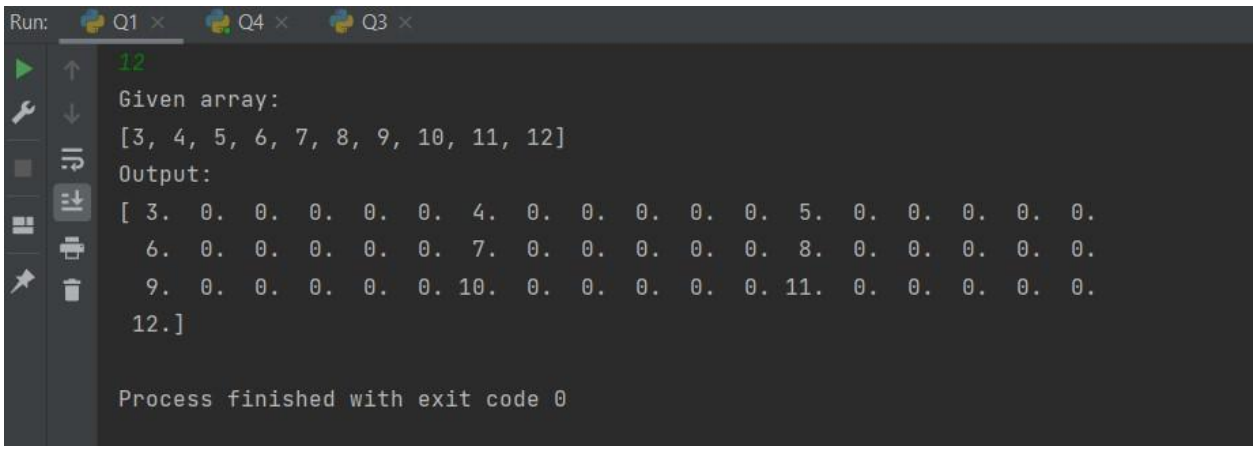
Question-1 :

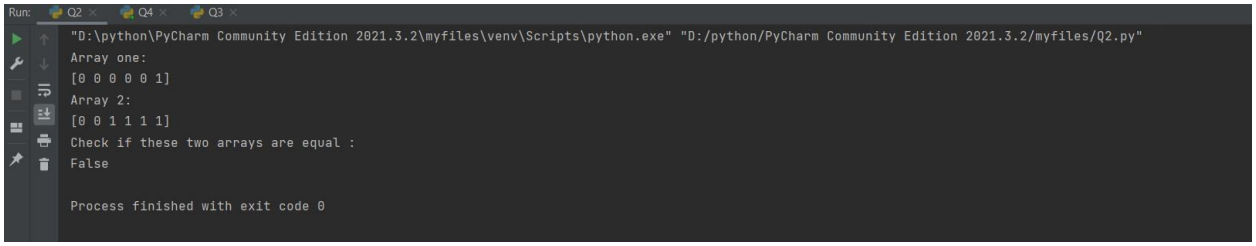
Consider the vector [10, 11, 12, 13, 14], how to build a new vector with 5 consecutive zeros interleaved between each value?





Question-2 :

Consider two random arrays A and B, check if they are equal.



Question-3 :

What is the result of the following expression ?

- print(0 * np.nan) : Nan - Anything multiplied by zero is zero! But since nan is not a number it will always return nan as the answer.
- print(np.nan != np.nan) : True - Since NAN stands for “Not An Number” it is not equal to itself hence this statement is true.
- print(np.inf > np.nan) : False - Similar to the above question since nan is not a numerical value infinity cannot be greater than it, as both are incomparable quantities to each other.
- print(np.nan - np.nan) : Nan - “Not An Number” thus cannot be used for mathematical operations
- print(0.3 == 3 * 0.1) : False - Floating point number hence they are not equal

Question-4 :

Convert the first character of each element in a series to uppercase?
For example : ser = pd.Series(['amrita', 'school', 'of', 'engineering' 'chennai' , 'campus'])
Output will be : Amrita School Of Engineering Chennai Campus

Question-5

Do any two Exercises using Numpy :

- ❖ Array re-dimensioning
- ❖ Getting the positions (indexes) where elements of 2 numpy arrays match