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In [1]: #1. Write a NumPy program to create an array of 10 zeros, 10 ones, and 10 fives
        import numpy as np
        # Creating the arrays
        zeros = np.zeros(10, dtype=int)
        ones = np.ones(10, dtype=int)
        fives = np.full(10, 5)
        # Concatenating all arrays
        result = np.concatenate([zeros, ones, fives])
        print(result)
       [0\ 0\ 0\ 0\ 0\ 0\ 0\ 0\ 1\ 1\ 1\ 1\ 1\ 1\ 1\ 1\ 1\ 5\ 5\ 5\ 5\ 5\ 5\ 5\ 5\ 5\ 5
In [2]: #2. Write a NumPy program to create a 3x3 matrix with values ranging from 2 to 10.
        import numpy as np
        # Creating a 3x3 matrix with values from 2 to 10
        matrix = np.arange(2, 11).reshape(3, 3)
        print(matrix)
       [[2 3 4]
        [5 6 7]
        [8 9 10]]
In [3]: #3. Write a NumPy program to create an array with values ranging from 12 to 38.
        import numpy as np
        # Creating an array with values from 12 to 38
        array = np.arange(12, 39)
        print(array)
       [12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35
        36 37 38]
In [4]: #4. Write a NumPy program to convert a list and tuple into arrays. Input: my list = [1, 2, 3,
          #Input: my_tuple = ([8, 4, 6], [1, 2, 3])
        import numpy as np
        # Given list and tuple
        my_list = [1, 2, 3, 4, 5, 6, 7, 8]
        my_tuple = ([8, 4, 6], [1, 2, 3])
        # Converting to NumPy arrays
        array_from_list = np.array(my_list)
        array_from_tuple = np.array(my_tuple)
        print("Array from list:\n", array_from_list)
        print("Array from tuple:\n", array from tuple)
       Array from list:
        [1 2 3 4 5 6 7 8]
       Array from tuple:
        [[8 4 6]
        [1 2 3]]
In [ ]:
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