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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 arrays
        zeros_array = np.zeros(10, dtype=int)
        ones_array = np.ones(10, dtype=int)
        fives_array = np.full(10, 5, dtype=int)
        # Concatenating all arrays
        result_array = np.concatenate([zeros_array, ones_array, fives_array])
        # Display the result
        print(result_array)
       [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)
        # Display the matrix
        print(matrix)
       [[2 3 4]
        [5 6 7]
        [8 9 10]]
In [4]: #3. Write a NumPy program to create an array with values ranging from 12 to 38.
        import numpy as np
        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 [6]: # 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
        my_list=[1,2,3,4,5,6,7,8]
        my_tuple=([8,4,6],[1,2,3])
        array_from_list=np.array(my_list)
        array_from_tuple=np.array(my_tuple)
        print("array from list is : ",array from list)
        print("array from tuple is : ",array_from_tuple)
       array from list is : [1 2 3 4 5 6 7 8]
       array from tuple is : [[8 4 6]
        [1 2 3]]
In [ ]:
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