

Python Assignment – 2

Q.1 List (Array)

1. Create a list of five integers.
 2. Perform the following operations:
 - Display the list
 - Add a new element to the list
 - Remove an element from the list
 - Display the updated list
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Q.2 Tuple

1. Create a tuple containing student details such as:
 - Name
 - Roll Number
 - Standard
 - Marks
 2. Print all elements of the tuple.
 3. Attempt to modify one element and observe the result.
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Q.3 Set

1. Create a set of five numbers (include duplicate values).
 2. Display the set.
 3. Add a new element to the set.
 4. Remove an element from the set.
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Q.4 Dictionary

1. Create a dictionary to store student information with the following keys:
 - Name
 - Roll Number
 - Standard
 - Marks
 2. Print all keys and values.
 3. Update the marks of the student.
 4. Add a new key-value pair to the dictionary.
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Q.5 List of Lists (Nested List)

1. Create a list of lists to store marks of three students in three subjects.
2. Display the complete list.

3. Access and print the marks of:
 - Second student
 - Third subject of the first student
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Q.6 Iteration on Collections

1. Create a list of numbers.
 2. Use a loop to print each element.
 3. Calculate and display the sum of all elements in the list.
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Q.7 Importing a Package / Module

1. Import the built-in `math` module.
 2. Use it to:
 - Calculate the square root of a number
 - Calculate the factorial of a number
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Q.8 Importing Functions from Another File

1. Create a Python file named `operations.py`.
 2. Define functions for:
 - Addition
 - Subtraction
 3. Create another Python file.
 4. Import the functions from `operations.py` and use them.
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Q.9 Mini Practice Program

1. Create a dictionary where the key is a subject name and the value is a list of marks.
 2. Print each subject along with its marks using a loop.
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