

Day – 3 (Assignment 24th August 2023)

Question 1: Given the list fruits = ['apple', 'banana', 'cherry'], how can you add the item 'orange' to the end of the list?

Question 2: If you have the list numbers = [1, 2, 3, 4, 5], what method would you use to remove the item 3 from the list?

Question 3: You have the list colors = ['red', 'green', 'blue']. How can you insert the item 'yellow' at the second position in the list?

Question 4: If you have the list letters = ['a', 'b', 'c', 'a', 'd'], how many occurrences of the letter 'a' are there in the list?

Question 5: Given the list data = [10, 20, 30, 40, 50], which method can you use to remove and return the last item from the list?

Question 6: If you want to sort the list values = [4, 1, 7, 3, 9] in ascending order, which method would you use?

Question 7: You have the list cities = ['New York', 'Los Angeles', 'Chicago', 'Houston']. How can you find the index of the item 'Chicago'?

Question 8: Given the list animals = ['dog', 'cat', 'elephant', 'lion'], how can you replace 'elephant' with 'tiger'?

Question 9: If you have the list numbers = [5, 2, 8, 2, 1], what method can you use to count the number of occurrences of the value 2?

Question 10: You have the list fruits = ['apple', 'banana', 'cherry']. How can you reverse the order of the items in the list? can you use to remove and return the last item from the list?

Day – 3 (Assignment 25th August 2023)

- ❖ Check a character exists in a number or not?

Day – 3 (Assignment 27th August 2023)

- ❖ Question: You are tasked with developing a Python program that takes the marks obtained by a student in the SSC examination and calculates the corresponding grade, grade point, and percentage range according to the SSC grading system in Bangladesh. Design a program that accomplishes this task efficiently.
- ❖ Your program should include the following:
 - Prompt the user to input the marks obtained by the student.
 - Calculate the percentage achieved by the student.
 - Based on the calculated percentage, determine and display the appropriate grade, grade point, and the corresponding percentage range.
 - Remember to handle possible invalid input, such as negative marks or marks exceeding the total marks. Provide meaningful error messages when needed.
- ❖ Please provide comments in your code to explain the purpose of each step and any calculations performed. Your program should be user-friendly and ensure accurate calculation of grades based on the official SSC grading system.
- ❖ Solve the problem using the concept tha