**Easy Level:**

1. **Reverse a String**  
   Write a program to reverse a given string.
2. **Palindrome Check**  
   Write a program to check if a string is a palindrome (reads the same forward and backward).
3. **Count Vowels in a String**  
   Write a program to count the number of vowels in a given string.
4. **Find the Length of a String**  
   Write a program to find the length of a given string without using the length() method.
5. **Count the Frequency of Each Character in a String**  
   Write a program to count the frequency of each character in a given string.

**Moderate Level:**

1. **Remove Duplicate Characters from a String**  
   Write a program to remove duplicate characters from a string.
2. **Check for Anagrams**  
   Write a program to check if two strings are anagrams of each other (contain the same characters in different orders).
3. **String Rotation**  
   Write a program to check if one string is a rotation of another.
4. **Find the First Non-Repeated Character in a String**  
   Write a program to find the first non-repeated character in a string.
5. **Replace All Spaces with a Specific Character**  
   Write a program to replace all spaces in a string with a specified character (e.g., underscore).

**Moderate to Difficult Level:**

1. **Longest Substring Without Repeating Characters**  
   Write a program to find the length of the longest substring without repeating characters.
2. **String Compression**  
   Write a program to compress a string by replacing repeated characters with the character followed by its count (e.g., "aaabbb" becomes "a3b3").
3. **Find All Permutations of a String**  
   Write a program to find and print all permutations of a given string.
4. **Substring Matching**  
   Write a program to check if one string is a substring of another string.
5. **Check if Two Strings are Rotation of Each Other**  
   Write a program to check if two strings are rotations of each other by using a substring.