

Python Programs (5 Marks)

1. Python program to count frequency of each element in an array.

Input: Enter the number of elements and the elements themselves.

Output: Display the frequency of each element.

2. Python program to right rotate an array.

Input: Array and the number of times to rotate.

Output: Array after right rotation.

3. Python program to interchange diagonals of a matrix.

Input: A matrix.

Output: Matrix after interchanging its diagonals.

4. Python program to reverse the order of words in a string.

Input: A sentence.

Output: Sentence with words in reverse order.

5. Python program to remove all repeated characters from a string.

Input: A string with repeated characters.

Output: String after removing duplicate characters.

6. Python program to check if two strings are anagrams.

Input: Two strings.

Output: True if they are anagrams, otherwise False.

7. Python program to check whether a triangle is equilateral, scalene, or isosceles.

Input: Three sides of a triangle.

Output: Type of triangle (equilateral, scalene, or isosceles).

8. Python program to sort a list of strings alphabetically and in reverse alphabetical order.

Input: A list of strings.

Output: List sorted alphabetically and in reverse order.

9. Python program to print half diamond star pattern.

Input: Number of rows.

Output: Half diamond star pattern.

10. Python program to check even or odd using bitwise operator.

Input: A number.

Output: Whether the number is even or odd.

11. Python program to print a triangular number pattern.

Input: Number of rows.

Output: Triangular number pattern.

12. Python program to count the occurrences of each character in a string.

Input: A string.

Output: Occurrences of each character in the string.

13. Python program to find HCF (GCD) of two numbers.

Input: Two numbers.

Output: HCF (GCD) of the two numbers.