**Simple Program List**

1. WAP to calculate area of circle.
2. WAP to convert integer to floating point number.
3. WAP to find whether a number is even or odd.
4. WAP to determine whether the entered character is a vowel or not.
5. WAP to calculate the sum of numbers from m to n.
6. WAP to calculate the average of first n numbers.
7. WAP to determine whether a given number is a prime or a composite number.
8. WAP to find whether a number is even or odd using functions.

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1. WAP for swapping two values.
2. WAP to find larger of the two numbers.
3. WAP to find the sum of first N natural numbers.

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1. WAP to read and display n numbers using an array.
2. WAP to find the mean of n numbers using arrays.
3. WAP to print the position of the smallest number of n numbers using arrays.
4. WAP to find the second largest of n numbers using an array.
5. WAP to enter n number of digits. Form a number using these digits. [Cannot be done in python]
6. WAP to find whether the array of integers contains a duplicate number.
7. WAP to insert a number at a given location in an array.
8. WAP to insert a number in an array that is already sorted in ascending order.
9. WAP to delete a number from a given location in an array.
10. WAP to merge to two unsorted/sorted arrays.
11. WAP to read an array of n numbers and then find the smallest number.
12. WAP to interchange the largest and the smallest number in an array.
13. WAP to read and display a n x n matrix.
14. WAP to generate Pascal’s triangle.
15. In a small company there are 5 salesmen. Each salesman is supposed to sell 3 products. WAP using 2D array to print
16. Total sales by each salesman.
17. Total sales of each item.
18. WAP to read a 2D array marks which stores the marks of 5 students in 3 subjects. WAP to display the highest marks in each subject.
19. WAP to transpose a n x n matrix.
20. WAP to input two m x n matrices and then calculate the sum of their corresponding elements and store it in a third m x n matrix.
21. WAP to multiply two m x n matrices.
22. WAP to fill a square matrix with value zero on the diagonals, 1 on the upper right triangle, and -1 on the lower left triangle.
23. WAP to read and display a 2x2x2 array.

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1. WAP to find the length of a string.
2. WAP to convert the lower-case characters of a string into upper case.
3. WAP to append/concatenate a string to another string.
4. WAP to reverse a given string.
5. WAP to compare two strings.
6. WAP to extract a substring from the middle of a given string.
7. WAP to insert a string in the main text.
8. WAP to delete a substring from a text.
9. WAP to replace a pattern with another pattern in the text.
10. WAP to sort the names of the students.
11. WAP to read multiple lines of text and then count the number of characters, words and lines in the text.
12. WAP to find whether a string is a palindrome or not.

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1. WAP to sort the given URLs based on their frequency. When two or more URLs have same frequency count then print the lexicographically smaller URL first.
2. String is given and left and right integer is given. Left means number of characters to be rotated left, and right means number of characters to be rotated right. Find the resultant string. Solution: O(1) possible. Take the difference of left and right. Extract the sub strings, and concatenate them accordingly python