

1. Write a program to print values of variables of different data types.
2. Write a program to read and print values of variables of different data types.
3. Write a program to calculate the area of a triangle using herons formulae.
$$(area = \sqrt{S*(S-a)*(S-b)*(S-c)}).$$
4. Write a program to calculate the distance between two points.
5. Write a program to perform addition ,subtraction, multiplication division and modulo division on two integer numbers.
6. Write a C++ program to perform addition ,subtraction, multiplication division and modulo division on two floating point numbers.
7. Write a C++ program that demonstrates the use of relational operators.
8. Write a C++ program to illustrate the use of unary prefix increment and decrement operators.
9. Write a C++ program to illustrate the use of unary postfix increment and decrement operators.
10. Write a C++ program to find the largest of two numbers using the ternary operator.
11. Write a C++ program to find the largest of three numbers using the ternary operator.
12. Write a C++ program to demonstrate the use of assignment operators.
13. Write a C++ program to calculate the area of a circle.
14. Write a C++ program to read a character in uppercase and then print it in lowercase.
15. Write a C++ program to print the digit at one's place of a number.
16. Write a C++ program to swap two numbers without using a temporary variable.
17. Write a C++ program to swap two numbers with a temporary variable.
18. Write a C++ program to calculate the average of two numbers. Print their deviation.
19. Write a C++ program to convert degrees fahrenheit into degrees celsius.
20. Write a C++ program to calculate the total amount of money in the piggy bank given the coins of ₹10, ₹5, ₹2, ₹1.
21. Write a C++ program to swap the first and last digits of any number.

22. Write a C++ program that replaces all the words of "string1" with "string2".
23. Write a C++ program to compute the sum of two given integer values. If the two values are the same, then return triple their sum.
24. Write a C++ program to remove the character at a given position in the string.
The given position will be in the range 0..n string length -1 inclusive.
25. Write a C++ program to exchange the first and last characters in a given string and return the result string.
26. Write a C++ program to check which number is closest to the value 100 among two given integers. Return 0 if the two numbers are equal.
27. Write a C++ program to check whether two given integers are in the range [1,..,n] inclusive, or they are both in the range [1,..,n] inclusive.
28. Write a C++ program to check if two given non-negative integers have the same last digit.
29. Write a C++ program to create another string which is n copies of the first 3 characters of a given string. If the length of the given string is less than 3 then return n copies of the string.
30. Write a C++ program to find the largest value from the first, last, and middle elements of a given array of integers of odd length (at least 1).

1. Write a program to check and increment a number if it is positive.
2. Write a program to determine whether a person is eligible to vote.
3. write a program to determine the character entered by the user.
4. Write a program to find the larger number between two numbers.
5. write a program to find whether the given number is even or odd.
6. Write a program to enter any character. If the entered character is in lowercase, convert it into uppercase. If it is a lower case character, then convert it into uppercase.
7. A company decides to give bonuses to all its employees on diwali. A five percent bonus on salary is given to male workers and a 10% bonus on salary to female workers. write a program to enter the salary and gender of the employee. If the salary is less than ₹10000 then the employee gets an extra two per cent bonus on salary. Calculate the bonus that has to be given to the employees and display the salary that the employee will get.
8. Write a program to find whether the given year is a leap year or not.
9. Write a program to find the greatest number from three numbers.
10. Write a program to take an input from the user and then check whether it is a number or a character. If it is a character, determine whether it is upper case or lower case.
11. Write a program to calculate roots of a quadratic equation.
12. Write a program to determine whether an entered character is a vowel or not.
13. Write a program that accepts a number from 1-10. Print whether the number is even or odd using a switch-case construct.
14. Write a program to enter a number from 1-7 and display the corresponding day of the week using switch-case statements.
15. Write a program to calculate the sum of the first 10 numbers.
16. Write a program to print 20 horizontal asterisks(*) .
17. Write a program to calculate the sum of numbers from m to n.
18. Write a program to read the numbers until -1 is encountered. count the negative positives and zeros entered by the user.
19. Write a program to calculate the average of numbers entered by the user.

20. Write a program using do-while loop to display the square and cube of first n natural numbers.

21. Write a program to list all the leap years from 1900 to 2100.

22. Write a program to print the following patterns.

12345	1
12345	22
12345	333
12345	4444
12345	55555

1	1
21	121
321	12321
4321	1234321
54321	123454321

23. Write a program to print the multiplication table of n, where n is entered by the user.

24. Write a program to print all the numbers from m-n thereby classifying them as even or odd.

25. Write a program to calculate the sum of all positive numbers entered by the user by using goto statement.