

Basic expression programs:

1. Write a program to print "HELLO WORLD"
2. Write a program to print "Name and Address"
3. Write a program to print no and its square.
4. Write a program to take two numbers and print Addition, Multiplication, Subtraction, Division.
5. Write a program to find the area of a circle (πr^2)
6. Write a program to calculate simple interest using $I = PRN/100$ (P= Principle amount, R = Rate of Interest, N = Number of Years)
7. Write a program to find the area of a Triangle ($0.5 * H * W$)

Input/Output programs:

1. Write a program to print no and its square.
2. Write a program to take two numbers and print Addition, Multiplication, Subtraction, Division.
3. Write a program to find the area of a circle (πr^2)
4. Write a program to calculate simple interest using $I = PRN/100$ (P= Principle amount, R = Rate of Interest, N = Number of Years)
5. Write a program to find the area of a Triangle ($0.5 * H * W$)
6. Write a program to calculate simple interest using $I = PRN/100$ (P= Principle amount, R = Rate of Interest, N = Number of Years)
7. Write a program to calculate Gross Salary and Net Salary print Grade of employee

Gross Salary = basic + da + hra + ma + ltc + va

BASIC = 8000	ma= 10% of basic
da = 52% of basic	ltc= 5% of basic
hra= 10% of basic	va= 10% of basic

Net Salary = Gross Saiary - PF

8. Write a program to swap contents of the two variables
9. Write a program to swap contents of the two variables without use of third variable
10. Write a program to convert centimeter to meter.
11. Write a program to convert Celsius to Fahrenheit.

Conditional programs:

1. Write a program to check that accepted no is 5 or not.
2. Write a program to find that accepted value is negative, positive or zero.
3. Write a program to find that accepted value is odd , even or zero.
4. Write a program to input 2 integers and find maximum.
5. Write a program to input 3 integers and find maximum.
6. Write a program to enter the 3 Subject marks, make total, find percentage (%) and Print Mark sheet
Use following criteria
0-50 , 50-100, > 100
7. Write a c program to find the given year is leap year or not.
8. Write a program to input seconds and display no of hours, no of seconds and no of minutes.
9. Press option 1 for positive Negative , 2 for cube ,3 for Square
10. Press option p for positive Negative , c for cube ,s for Square
- 11.

Series programs:

1. Print your name 20 times
2. 1 to 10
3. 1 to N
4. 1 to N Vertical
5. 1+2+3+4+....
6. 1+4+9+16+25
7. 1/1+1/2+1/3+1/4.....
8. 1+3+5+7.....+n
9. 1+4-9+16-25+36.....+n².

Loops programs:

1. Table
2. Find out the sum of first and last digit of a number.
3. Write a program to print sum of all numbers from given range of integer.
4. Write a program to print "4 is square of 2" from 1 to N.
5. 1 to N , 1 is odd , 2 is even , 3 is odd , 4 is even , n.....
6. Print only divisible by 7 upto N
7. Print only divisible by K upto N and print Sum and Count
8. Find out Factorial
9. Prime No
10. Fibonacci series

While Loop

1. 1 to N
2. Print Table
3. 1 to N , 1 is odd , 2 is even , 3 is odd , 4 is even , n.....
4. Reverse Number
5. Palindrome
6. Sum of Digit
7. Input number and display whether it is Armstrong or not.
8. Write a program for display following output.

Do While Loop

1. Print 1 to N
2. Print Table
3. Press option 1 for positive Negative , 2 for cube ,3 for Square , continue in do while

Pattern

1 1 2 1 2 3 1 2 3 4 1 2 3 4 5	1 2 2 3 3 3 4 4 4 4 5 5 5 5 5	X X X X X X X X X X X X X X X	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1 1 0 1 0 1 1 0 1 0 1 0 1 0 1
1 0 1 0 1 0 1 0 1 0	a a b a b C a b C D	A B B C C C D D D D	1 A B 1 2 3 A B C D	1 B B 3 3 3 D D D D
1 2 3	A B C D A B C	1 2 2	1 2 3 4 5 1 2 3 4	5 4 3 2 1 5 4 3 2

4 5 6 7 8 9 10	A B A	3 3 3	1 2 3 1 2	5 4 3 5 4 5
1 2 3 1 2 3	1 * 2 * * * * * 3 * * * * * 4 * * * * * *	* *	1 1 2 1 2 3 1 2 3 4 5	* * * * * * * * * * * * * * *
1 1 1 1 2 1 1 3 3 1 1 4 6 4 1 1 5 10 10 5 1				

Array programs:

1. Take N value from array and print it.
2. Print reverse of array.
3. Print 11 is odd, 22 is even , 33 is odd , etc.
4. Print only odd numbers, Print Sum of odd and count.
5. Count no of odd and even in the array.
6. Print positive negative reverse.
7. Print only odd position data.
8. Write a program to print sum of 10 numbers using an array.
9. Search value from the array.
10. Add two array in 3rd.
11. Merge of two array in 3rd array.
12. Create a program which will read the data from the user upto N and create two other arrays which will copy of odd and even.
13. Find out maximum from the array.
14. Input 10 numbers and arrange the numbers in descending order.
15. Write a program to addition 3 X 3 two matrix
16. Write a program to multiply 3 X 3 two matrix
17. Transpose of matrix
18. Print Diagonal only
19. Count no of Positive and Negative values from 3 X 3 array.
20. Write a program to transpose of given matrix.

String programs:

1. Accept a string from a user accept the search character and search for it in the string. Display its position and number of occurrences.
2. Read a string and find out the following without using any string function.
3. Length of the string
4. Write a c program to a string and a character and display how many time characters appear in a string.
5. Write a program for count vowels.
6. Write a program for count no of uppercase and lowercase in the given string.
7. Write a program for convert in to upper string and lower string.
8. Write a program for Reverse string.
9. Write a program for insert a word in to the given string.
10. Write a program to converts upper case string to lower case string or lower case string to upper case string.
11. Write a program to count how many characters, no of word, lines, spaces into given text.

12. Write a program for Delete character.
13. Write a program to replace a particular character by a character in the string.
14. Merge two character string in third one.
15. Input a string and display is it palindrome or not.
16. Demo of strcpy, strcat, strlen, strcmp.

Function programs:

1. Enter a value in main() and check whether the no is odd or even in the function Odd_Even.
2. Write a program using function to find out factorial of a number.
3. Write a program using function to find out maximum number.
4. Write add(), sub(), Mul(), Div()
5. Write a program using function to return 1 if the given number is palindrome otherwise return 0.
6. Write a function program to reverse string.
7. Write a program using function to find out sum of digit.
8. Find out maximum for the array using function.
9. Write a program to input a number and display MENU as below:
MENU
Display 1 to n
Display n to 1
Exit
And depending on the answer call function and perform the required operation.
10. Write a program to input 2 numbers and display a menu as drawn below:
MENU
Add
Subtraction
Multiplication
Division
Exit
And depending on user's choice appropriate function to call and to perform the operation.
Example: Users selected add then calls add () and display sum of the entered 2 numbers.

Structure programs:

1. Write a program to create a structure stud which has following member variable.
Roll no, Name, Address, C_marks, html_marks, Pcs_marks, total.
Write a program to insert 5 records.
2. Write a program to create a structure product which has following details:
Code, Name, Qty, Rate Total.
Declare array of structure to hold 5 such records and write a program to input record.
3. Define a structure containing details of a Hotel like hotel name, address, number of rooms charges. Create an array of 10 Hotels and get their details from the user. If the room charges entered by the user is equal to the room charges of a Hotel then display all the details of that Hotel.

Pointer programs:

1. Print value and it's pointer value
2. Calc using pointer
3. Swap 2 values.
4. Write a program using pointers to read in an array of integers and print its elements

File management:

1. Write a c program to open a file and display.
2. Count spaces, lines.
3. Count vowels.

4. Replace a character.
5. Copy one file
6. Merge two files