

## Control Statements:-

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- 1) Write a C Program to Find the factorial of a given number. User has to take the i/p at runtime.
- 2) Write a C Program to Find the sum of digits of a given number.
- 3) Write a C Program to reverse the digits of a given number.
- 4) Write a C program to convert a character. If it is Lower, convert it to Upper. and if it is Upper convert it to Lower character.
- 5) Write a C program to print multiplication tables from 10 to 20.
- 6) Write a C program to print first 100 prime numbers.
- 7) Write a C program to print Armstrong Numbers between 1 to 500.
- 8) Write a C program to print the binary of a given number( +ve or -ve numbers).
- 9) Write a C program to reverse the bits of a given number.
- 10) Write a C program to implement a Calculator using switch.
- 11) Write a C program to find the complement of a given number and then print its binary, decimal, octal and Hexa decimal values.  
Note : number can be either +ve or -ve. And observe the result satisfying its formulae or not.

<b>Formulae</b> : 1's complement of $(x) = -(x+1)$
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- 12) Write a C program to find the 2's complement of a given number and then print its binary, decimal, octal and Hexa decimal values.  
Note : number can be either +ve or -ve. And observe the result satisfying its formulae or not.

<b>Formulae</b> : 2's complement of $(x) = -(x)$
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- 13) Write a C program to find out power of given number without using pow() function.
- 14) Write a C program to find the complement of a particular bit. User has to take the position number at runtime.
- 15) Write a C program to print palindrome numbers between 1 to 1000.  
(palindrome numbers means the numbers which are equal to its reverse.  
Ex : 11,22,33,44,.....999. )
- 16) Write a C program to print fibonacci series between 0 to 50.

- 17) Write a C program to find the given number is power of 2 or not.
- 18) Write a C program to find out the biggest number of three variables using if-else ladder and ternary operator.
- 19) Accept a month in digit from the user. Display the month in words. If number is not between 1 and 12 display message "Invalid Month". (Use 'switch')
- 20) Write a C program to find the given number is Perfect number or not?  
Note : Perfect number means sum of its divisors except that num is equal to the same number.

Ex : i/p num = 6.

6 divisors are = 1,2,3, & 6.

sum = 1+2+3

sum = 6. So here 6 is perfect number.

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