**Total Duration: 30 Hours (12-14 Classes)**

C Introduction

* [Keywords & Identifier](https://www.programiz.com/c-programming/c-keywords-identifier)
* [Variables & Constants](https://www.programiz.com/c-programming/c-variables-constants)
* [C Data Types](https://www.programiz.com/c-programming/c-data-types)
* [C Input/Output](https://www.programiz.com/c-programming/c-input-output)
* [C Operators](https://www.programiz.com/c-programming/c-operators)
* [C Introduction Examples](https://www.programiz.com/c-programming/c-introduction-examples)

C Flow Control

* [C if...else](https://www.programiz.com/c-programming/c-if-else-statement)
* [C for Loop](https://www.programiz.com/c-programming/c-for-loop)
* [C while Loop](https://www.programiz.com/c-programming/c-do-while-loops)
* [C break and continue](https://www.programiz.com/c-programming/c-break-continue-statement)
* [C switch...case](https://www.programiz.com/c-programming/c-switch-case-statement)
* [C Programming goto](https://www.programiz.com/c-programming/c-goto-statement)
* [Control Flow Examples](https://www.programiz.com/c-programming/c-decision-making-loops-examples)

C Functions

* [C Programming Functions](https://www.programiz.com/c-programming/c-functions)
* [C User-defined Functions](https://www.programiz.com/c-programming/c-user-defined-functions)
* [C Function Types](https://www.programiz.com/c-programming/types-user-defined-functions)
* [C Recursion](https://www.programiz.com/c-programming/c-recursion)
* [C Storage Class](https://www.programiz.com/c-programming/c-storage-class)
* [C Function Examples](https://www.programiz.com/c-programming/c-functions-examples)

C Programming Arrays

* [C Programming Arrays](https://www.programiz.com/c-programming/c-arrays)
* [C Multi-dimensional Arrays](https://www.programiz.com/c-programming/c-multi-dimensional-arrays)
* [C Arrays & Function](https://www.programiz.com/c-programming/c-arrays-functions)

C Programming Pointers

* [C Programming Pointers](https://www.programiz.com/c-programming/c-pointers)
* [C Pointers & Arrays](https://www.programiz.com/c-programming/c-pointers-arrays)
* [C Pointers And Functions](https://www.programiz.com/c-programming/c-pointer-functions)
* [C Memory Allocation](https://www.programiz.com/c-programming/c-dynamic-memory-allocation)
* [Array & Pointer Examples](https://www.programiz.com/c-programming/c-pointer-examples)

C Programming Strings

* [C Programming String](https://www.programiz.com/c-programming/c-strings)
* [C String Functions](https://www.programiz.com/c-programming/string-handling-functions)
* [C String Examples](https://www.programiz.com/c-programming/c-string-examples)

Structure And Union

* [C Structure](https://www.programiz.com/c-programming/c-structures)
* [C Struct & Pointers](https://www.programiz.com/c-programming/c-structures-pointers)
* [C Struct & Function](https://www.programiz.com/c-programming/c-structure-function)
* [C Unions](https://www.programiz.com/c-programming/c-unions)
* [C struct Examples](https://www.programiz.com/c-programming/c-structure-examples)

C Programming Files

* [C Files Input/Output](https://www.programiz.com/c-programming/c-file-input-output)
* [C Files Examples](https://www.programiz.com/c-programming/c-file-examples)

Additional Topics

* [C Enumeration](https://www.programiz.com/c-programming/c-enumeration)
* [C Preprocessors](https://www.programiz.com/c-programming/c-preprocessor-macros)
* [C Standard Library](https://www.programiz.com/c-programming/library-function)
* [C Programming Examples](https://www.programiz.com/c-programming/examples)

## About C Programming

* **Procedural Language** - Instructions in a C program are executed step by step.
* **Portable** - You can move C programs from one platform to another, and run it without any or minimal changes.
* **Speed** - C programming is faster than most programming languages like Java, Python, etc.
* **General Purpose** - C programming can be used to develop operating systems, embedded systems, databases, and so on.

## Why Learn C Programming?

* C helps you to understand the internal architecture of a computer, how computer stores and retrieves information.
* After learning C, it will be much easier to learn other programming languages like Java, Python, etc.
* Opportunity to work on open source projects. Some of the largest open-source projects such as Linux kernel, Python interpreter, SQLite database, etc. are written in C programming.

# **\* C programming Practice Problems**

## Basic programming exercises:

## [Write a C program to perform input/output of all basic data types](https://codeforwin.org/2017/08/c-program-perform-input-output-basic-data-types.html).

1. [Write a C program to enter two numbers and find their sum.](https://codeforwin.org/2015/05/c-program-to-add-two-numbers.html)
2. [Write a C program to enter two numbers and perform all arithmetic operations.](https://codeforwin.org/2015/05/c-program-to-perform-all-arithmetic-operations.html)
3. [Write a C program to enter length and breadth of a rectangle and find its perimeter.](https://codeforwin.org/2015/05/c-program-to-find-perimeter-of-rectangle.html)
4. [Write a C program to enter length and breadth of a rectangle and find its area.](https://codeforwin.org/2015/05/c-program-to-find-area-of-rectangle.html)
5. [Write a C program to enter radius of a circle and find its diameter, circumference and area.](https://codeforwin.org/2015/05/c-program-to-calculate-diameter-circumference-and-area-of-circle.html)
6. [Write a C program to enter length in centimeter and convert it into meter and kilometer.](https://codeforwin.org/2015/05/c-program-to-convert-centimeter-into-meter-kilometer.html)
7. [Write a C program to enter temperature in Celsius and convert it into Fahrenheit.](https://codeforwin.org/2015/05/c-program-to-convert-celsius-into-fahrenheit.html)
8. [Write a C program to enter temperature in Fahrenheit and convert to Celsius](https://codeforwin.org/2015/06/c-program-to-convert-fahrenheit-into-celsius.html)
9. [Write a C program to convert days into years, weeks and days](https://codeforwin.org/2015/06/c-program-to-convert-days-into-years-weeks-days.html).
10. [Write a C program to find power of any number x ^ y.](https://codeforwin.org/2015/05/c-program-to-find-power-of-two-number.html)
11. [Write a C program to enter any number and calculate its square root.](https://codeforwin.org/2015/05/c-program-to-calculate-square-root.html)
12. [Write a C program to enter two angles of a triangle and find the third angle.](https://codeforwin.org/2015/05/c-program-to-find-angles-of-triangle.html)
13. [Write a C program to enter base and height of a triangle and find its area.](https://codeforwin.org/2015/05/c-program-to-find-area-of-triangle.html)
14. [Write a C program to calculate area of an equilateral triangle.](https://codeforwin.org/2015/05/c-program-to-find-area-of-equilateral-triangle.html)
15. [Write a C program to enter marks of five subjects and calculate total, average and percentage.](https://codeforwin.org/2015/05/c-program-to-calculate-total-average-percentage-of-five-subjects.html)
16. [Write a C program to enter P, T, R and calculate Simple Interest.](https://codeforwin.org/2015/05/c-program-to-calculate-simple-interest.html)
17. [Write a C program to enter P, T, R and calculate Compound Interest.](https://codeforwin.org/2015/05/c-program-to-calculate-compound-interest.html)

## Bitwise Operator**:**

[Write a C program to check Least Significant Bit (LSB) of a number is set or not](https://codeforwin.org/2016/01/c-program-to-check-lsb-of-number.html).

1. [Write a C program to check Most Significant Bit (MSB) of a number is set or not](https://codeforwin.org/2016/01/c-program-to-check-most-significant-bit-of-number-is-set-or-not.html).
2. [Write a C program to get nth bit of a number](https://codeforwin.org/2016/01/c-program-to-get-value-of-nth-bit-of-number.html).
3. [Write a C program to set nth bit of a number](https://codeforwin.org/2016/01/c-program-to-set-nth-bit-of-number-using-bitwise-operator.html).
4. [Write a C program to clear nth bit of a number](https://codeforwin.org/2016/01/c-program-to-clear-nth-bit-of-number.html).
5. [Write a C program to toggle nth bit of a number](https://codeforwin.org/2016/01/c-program-to-toggle-nth-bit-of-number.html).
6. [Write a C program to get highest set bit of a number](https://codeforwin.org/2016/01/c-program-to-get-highest-order-set-bit-of-number.html).
7. [Write a C program to get lowest set bit of a number](https://codeforwin.org/2016/01/c-program-to-get-lowest-order-set-bit-of-number.html).
8. [Write a C program to count trailing zeros in a binary number](https://codeforwin.org/2016/01/c-program-to-count-trailing-zeros-in-binary-number-using-bitwise-operator.html).
9. [Write a C program to count leading zeros in a binary number](https://codeforwin.org/2016/01/c-program-to-count-leading-zeros-in-binary-number.html).
10. [Write a C program to flip bits of a binary number using bitwise operator](https://codeforwin.org/2016/01/c-program-to-flip-all-bits-of-binary-number.html).
11. [Write a C program to count total zeros and ones in a binary number](https://codeforwin.org/2016/01/c-program-to-count-number-of-ones-and-zeros-in-binary-number.html).
12. [Write a C program to rotate bits of a given number](https://codeforwin.org/2017/12/c-program-rotate-number-bits.html).
13. [Write a C program to convert decimal to binary number system using bitwise operator](https://codeforwin.org/2016/01/c-program-to-convert-decimal-to-binary-number-system-using-bitwise-operator.html).
14. [Write a C program to swap two numbers using bitwise operator](https://codeforwin.org/2016/01/c-program-to-swap-two-numbers-using-bitwise-operator.html).
15. [Write a C program to check whether a number is even or odd using bitwise operator](https://codeforwin.org/2016/01/c-program-to-check-even-or-odd-using-bitwise-operator.html).

## Ternary Operator:

[Write a C program to find maximum between two numbers using conditional operator.](https://codeforwin.org/2015/06/c-program-to-find-maximum-using-ternary-operator.html)

1. [Write a C program to find maximum between three numbers using conditional operator](https://codeforwin.org/2015/06/c-program-to-find-maximum-between-three-number-using-ternary-operator.html).
2. [Write a C program to check whether a number is even or odd using conditional operator.](https://codeforwin.org/2015/06/c-program-to-check-even-or-odd-using-conditional-operator.html)
3. [Write a C program to check whether year is leap year or not using conditional operator.](https://codeforwin.org/2015/06/c-program-to-check-leap-year-using-conditional-operator.html)
4. [Write a C program to check whether character is an alphabet or not using conditional operator.](https://codeforwin.org/2015/06/c-program-to-check-alphabet-using-conditional-operator.html)

## If Else:

0.[Write a C program to find maximum between two numbers.](https://codeforwin.org/2015/05/c-program-to-find-maximum-between-two-numbers.html)

1. [Write a C program to find maximum between three numbers.](https://codeforwin.org/2015/05/c-program-to-find-maximum.html)
2. [Write a C program to check whether a number is negative, positive or zero.](https://codeforwin.org/2015/05/c-program-to-check-negative-positive-zero.html)
3. [Write a C program to check whether a number is divisible by 5 and 11 or not.](https://codeforwin.org/2015/05/c-program-to-check-whether-number-is-divisible-by-5-and-11.html)
4. [Write a C program to check whether a number is even or odd.](https://codeforwin.org/2015/05/c-program-to-check-even-odd.html)
5. [Write a C program to check whether a year is leap year or not.](https://codeforwin.org/2015/05/c-program-to-check-leap-year.html)
6. [Write a C program to check whether a character is alphabet or not.](https://codeforwin.org/2015/05/c-program-to-check-alphabet.html)
7. [Write a C program to input any alphabet and check whether it is vowel or consonant.](https://codeforwin.org/2015/05/c-program-to-check-vowel-or-consonant.html)
8. [Write a C program to input any character and check whether it is alphabet, digit or special character.](https://codeforwin.org/2015/05/c-program-to-check-alphabet-digit-special-character.html)
9. [Write a C program to check whether a character is uppercase or lowercase alphabet](https://codeforwin.org/2015/09/c-program-to-check-whether-character-is-uppercase-or-lowercase.html).
10. [Write a C program to input week number and print week day](https://codeforwin.org/2015/05/c-program-to-print-week-name.html).
11. [Write a C program to input month number and print number of days in that month.](https://codeforwin.org/2015/05/c-program-to-print-number-of-days-in-month.html)
12. [Write a C program to count total number of notes in given amount](https://codeforwin.org/2015/07/c-program-to-count-total-number-of-notes.html).
13. [Write a C program to input angles of a triangle and check whether triangle is valid or not.](https://codeforwin.org/2015/05/c-program-to-check-whether-triangle-is-valid-or-not.html)
14. [Write a C program to input all sides of a triangle and check whether triangle is valid or not.](https://codeforwin.org/2015/05/c-program-to-check-whether-triangle-side-is-valid-or-not.html)
15. [Write a C program to check whether the triangle is equilateral, isosceles or scalene triangle.](https://codeforwin.org/2015/05/c-program-to-check-whether-triangle-is-equilateral-isosceles-scalene.html)
16. [Write a C program to find all roots of a quadratic equation](https://codeforwin.org/2016/04/c-program-to-find-all-roots-of-quadratic-equation.html).
17. [Write a C program to calculate profit or loss.](https://codeforwin.org/2015/05/c-program-to-check-profit-or-loss.html)
18. [Write a C program to input marks of five subjects Physics, Chemistry, Biology, Mathematics and Computer. Calculate percentage and grade according to following:](https://codeforwin.org/2015/05/c-program-to-enter-student-marks-and-calculate-percentage-and-grade.html)  
    Percentage >= 90% : Grade A  
    Percentage >= 80% : Grade B  
    Percentage >= 70% : Grade C  
    Percentage >= 60% : Grade D  
    Percentage >= 40% : Grade E  
    Percentage < 40% : Grade F
19. [Write a C program to input basic salary of an employee and calculate its Gross salary according to following:](https://codeforwin.org/2015/05/c-program-to-calculate-gross-salary-of-employee.html)  
    Basic Salary <= 10000 : HRA = 20%, DA = 80%  
    Basic Salary <= 20000 : HRA = 25%, DA = 90%  
    Basic Salary > 20000 : HRA = 30%, DA = 95%
20. [Write a C program to input electricity unit charges and calculate total electricity bill according to the given condition:](https://codeforwin.org/2015/05/c-program-to-calculate-electricity-bill.html)  
    For first 50 units Rs. 0.50/unit  
    For next 100 units Rs. 0.75/unit  
    For next 100 units Rs. 1.20/unit  
    For unit above 250 Rs. 1.50/unit  
    An additional surcharge of 20% is added to the bill

## Switch case:

0.[Write a C program to print day of week name using switch case.](https://codeforwin.org/2015/06/c-program-to-print-week-day-name-using-switch-case.html)

1. [Write a C program print total number of days in a month using switch case.](https://codeforwin.org/2015/06/c-program-to-print-number-of-days-in-month-using-switch-case.html)
2. [Write a C program to check whether an alphabet is vowel or consonant using switch case.](https://codeforwin.org/2015/06/c-program-to-check-vowel-or-consonant-using-switch-case.html)
3. [Write a C program to find maximum between two numbers using switch case.](https://codeforwin.org/2015/06/c-program-to-find-maximum-using-switch-case.html)
4. [Write a C program to check whether a number is even or odd using switch case.](https://codeforwin.org/2015/06/c-program-to-check-even-or-odd-using-switch-case.html)
5. [Write a C program to check whether a number is positive, negative or zero using switch case.](https://codeforwin.org/2018/05/check-positive-negative-or-zero-using-switch-case.html)
6. [Write a C program to find roots of a quadratic equation using switch case](https://codeforwin.org/2016/04/c-program-to-find-all-roots-of-quadratic-equation-using-switch.html).
7. [Write a C program to create Simple Calculator using switch case](https://codeforwin.org/2015/06/c-program-to-create-simple-calculator-using-switch-case.html).

## Loop/Iteration:

[Write a C program to print all natural numbers from 1 to n.](https://codeforwin.org/2015/06/c-program-to-print-natural-numbers-from-1-to-n.html) – using [while loop](https://codeforwin.org/2015/06/c-program-to-print-numbers-from-1-to-n-using-while-loop.html)

1. [Write a C program to print all natural numbers in reverse (from n to 1)](https://codeforwin.org/2015/07/c-program-to-print-all-natural-numbers-in-reverse.html). – using [while loop](https://codeforwin.org/2015/07/c-program-to-print-all-natural-numbers.html)
2. [Write a C program to print all alphabets from a to z.](https://codeforwin.org/2015/06/c-program-to-print-a-to-z.html) – using [while loop](https://codeforwin.org/2015/07/c-program-to-print-all-alphabets-using-while-loop.html)
3. [Write a C program to print all even numbers between 1 to 100.](https://codeforwin.org/2015/06/c-program-to-print-all-even-numbers-between-1-to-100.html) – using [while loop](https://codeforwin.org/2015/06/c-program-to-print-all-even-numbers-using-while-loop.html)
4. [Write a C program to print all odd number between 1 to 100.](https://codeforwin.org/2015/06/c-program-to-print-all-odd--numbers-between-1-to-100.html)
5. [Write a C program to find sum of all natural numbers between 1 to n.](https://codeforwin.org/2015/06/c-program-to-calculate-sum-of-first-n-natural-numbers.html)
6. [Write a C program to find sum of all even numbers between 1 to n](https://codeforwin.org/2015/06/c-program-to-print-sum-of-all-even-numbers-between-1-to-n.html).
7. [Write a C program to find sum of all odd numbers between 1 to n](https://codeforwin.org/2015/06/c-program-to-print-sum-of-all-odd-numbers-between-1-to-n.html).
8. [Write a C program to print multiplication table of any number](https://codeforwin.org/2015/06/c-program-to-print-table-of-any-number.html).
9. [Write a C program to count number of digits in a number](https://codeforwin.org/2016/10/c-program-to-count-number-of-digits-in-number.html).
10. [Write a C program to find first and last digit of a number](https://codeforwin.org/2015/06/how-to-find-first-and-last-digit-of-any-number.html).
11. [Write a C program to find sum of first and last digit of a number.](https://codeforwin.org/2015/06/c-program-to-find-sum-of-first-and-last-digit-of-number.html)
12. [Write a C program to swap first and last digits of a number](https://codeforwin.org/2016/01/c-program-to-swap-first-and-last-digit-of-number.html).
13. [Write a C program to calculate sum of digits of a number](https://codeforwin.org/2015/06/c-program-to-calculate-sum-of-digits.html).
14. [Write a C program to calculate product of digits of a number](https://codeforwin.org/2015/06/c-program-to-calculate-product-of-digits.html).
15. [Write a C program to enter a number and print its reverse](https://codeforwin.org/2015/06/c-program-to-find-reverse-of-any-number.html).
16. [Write a C program to check whether a number is palindrome or not.](https://codeforwin.org/2015/06/c-program-to-check-whether-number-is-palindrome-or-not.html)
17. [Write a C program to find frequency of each digit in a given integer](https://codeforwin.org/2016/10/c-program-to-count-frequency-of-digits-in-number.html).
18. [Write a C program to enter a number and print it in words.](https://codeforwin.org/2015/06/c-program-to-print-numbers-in-words.html)
19. [Write a C program to print all ASCII character with their values](https://codeforwin.org/2015/06/c-program-to-print-ascii-values-of-all-characters.html).
20. [Write a C program to find power of a number using for loop](https://codeforwin.org/2015/07/c-program-to-find-power-of-number-using-for-loop.html).
21. [Write a C program to find all factors of a number](https://codeforwin.org/2015/06/c-program-to-print-factors-of-any-number.html).
22. [Write a C program to calculate factorial of a number](https://codeforwin.org/2015/06/c-program-to-calculate-factorial-of-any-number.html).
23. [Write a C program to find HCF (GCD) of two numbers](https://codeforwin.org/2015/06/c-program-to-find-hcf-of-two-numbers.html).
24. [Write a C program to find LCM of two numbers](https://codeforwin.org/2015/06/c-program-to-find-lcm-of-two-numbers.html).
25. [Write a C program to check whether a number is Prime number or not.](https://codeforwin.org/2015/06/c-program-to-check-prime-number.html)
26. [Write a C program to print all Prime numbers between 1 to n.](https://codeforwin.org/2015/06/c-program-to-print-all-prime-numbers-between-1-to-n.html)
27. [Write a C program to find sum of all prime numbers between 1 to n](https://codeforwin.org/2015/06/c-program-to-find-sum-of-all-prime.html).
28. [Write a C program to find all prime factors of a number](https://codeforwin.org/2015/06/c-program-to-find-all-prime-factors-of-any-number.html).
29. [Write a C program to check whether a number is Armstrong number or not.](https://codeforwin.org/2015/06/c-program-to-check-armstrong-number.html)
30. [Write a C program to print all Armstrong numbers between 1 to n.](https://codeforwin.org/2015/06/c-program-to-print-first-n-armstrong-numbers.html)
31. [Write a C program to check whether a number is Perfect number or not](https://codeforwin.org/2015/06/c-program-to-check-perfect-number.html).
32. [Write a C program to print all Perfect numbers between 1 to n](https://codeforwin.org/2015/06/c-program-to-print-all-perfect-numbers-between-1-to-n.html).
33. [Write a C program to check whether a number is Strong number or not](https://codeforwin.org/2015/06/c-program-to-check-strong-number.html).
34. [Write a C program to print all Strong numbers between 1 to n](https://codeforwin.org/2015/06/c-program-to-print-all-strong-numbers.html).
35. [Write a C program to print Fibonacci series up to n terms](https://codeforwin.org/2015/06/fibonacci-series-in-c-program.html).
36. [Write a C program to find one’s complement of a binary number](https://codeforwin.org/2015/08/c-program-to-find-ones-complement-of-binary-number.html).
37. [Write a C program to find two’s complement of a binary number](https://codeforwin.org/2015/08/c-program-to-find-twos-complement-of-binary-number.html).
38. [Write a C program to convert Binary to Octal number system](https://codeforwin.org/2015/08/c-program-to-convert-binary-to-octal-number-system.html).
39. [Write a C program to convert Binary to Decimal number system](https://codeforwin.org/2015/08/c-program-to-convert-binary-to-decimal-number-system.html).
40. [Write a C program to convert Binary to Hexadecimal number system](https://codeforwin.org/2015/08/c-program-to-convert-binary-to-hexadecimal-number-system.html).
41. [Write a C program to convert Octal to Binary number system](https://codeforwin.org/2015/08/c-program-to-convert-octal-to-binary-number-system.html).
42. [Write a C program to convert Octal to Decimal number system](https://codeforwin.org/2015/08/c-program-to-convert-octal-to-decimal-number-system.html).
43. [Write a C program to convert Octal to Hexadecimal number system](https://codeforwin.org/2015/08/c-program-to-convert-octal-to-hexadecimal-number-system.html).
44. [Write a C program to convert Decimal to Binary number system](https://codeforwin.org/2015/08/c-program-to-convert-from-decimal-to-binary-number-system.html).
45. [Write a C program to convert Decimal to Octal number system](https://codeforwin.org/2015/08/c-program-to-convert-decimal-to-octal-number-system.html).
46. [Write a C program to convert Decimal to Hexadecimal number system](https://codeforwin.org/2015/08/c-program-to-convert-decimal-to-hexadecimal-number-system.html).
47. [Write a C program to convert Hexadecimal to Binary number system](https://codeforwin.org/2015/08/c-program-to-convert-hexadecimal-to-binary-number-system.html).
48. [Write a C program to convert Hexadecimal to Octal number system](https://codeforwin.org/2015/09/c-program-to-convert-hexadecimal-to-octal-number-system.html).
49. [Write a C program to convert Hexadecimal to Decimal number system](https://codeforwin.org/2015/09/c-program-to-convert-hexadecimal-to-decimal-number-system.html).
50. [Write a C program to print Pascal triangle upto n rows](https://codeforwin.org/2015/07/c-program-to-print-pascal-triangle.html).
51. [Star pattern programs – Write a C program to print the given star patterns.](https://codeforwin.org/2015/07/star-patterns-program-in-c.html)
52. [Number pattern programs – Write a C program to print the given number patterns](https://codeforwin.org/2016/06/number-pattern-programs-in-c.html).

## Number system and conversion:

[Write a C program to print all natural numbers from 1 to n.](https://codeforwin.org/2015/06/c-program-to-print-natural-numbers-from-1-to-n.html) – using [while loop](https://codeforwin.org/2015/06/c-program-to-print-numbers-from-1-to-n-using-while-loop.html)

1. [Write a C program to print all natural numbers in reverse (from n to 1)](https://codeforwin.org/2015/07/c-program-to-print-all-natural-numbers-in-reverse.html). – using [while loop](https://codeforwin.org/2015/07/c-program-to-print-all-natural-numbers.html)
2. [Write a C program to print all alphabets from a to z.](https://codeforwin.org/2015/06/c-program-to-print-a-to-z.html) – using [while loop](https://codeforwin.org/2015/07/c-program-to-print-all-alphabets-using-while-loop.html)
3. [Write a C program to print all even numbers between 1 to 100.](https://codeforwin.org/2015/06/c-program-to-print-all-even-numbers-between-1-to-100.html) – using [while loop](https://codeforwin.org/2015/06/c-program-to-print-all-even-numbers-using-while-loop.html)
4. [Write a C program to print all odd number between 1 to 100.](https://codeforwin.org/2015/06/c-program-to-print-all-odd--numbers-between-1-to-100.html)
5. [Write a C program to find sum of all natural numbers between 1 to n.](https://codeforwin.org/2015/06/c-program-to-calculate-sum-of-first-n-natural-numbers.html)
6. [Write a C program to find sum of all even numbers between 1 to n](https://codeforwin.org/2015/06/c-program-to-print-sum-of-all-even-numbers-between-1-to-n.html).
7. [Write a C program to find sum of all odd numbers between 1 to n](https://codeforwin.org/2015/06/c-program-to-print-sum-of-all-odd-numbers-between-1-to-n.html).
8. [Write a C program to print multiplication table of any number](https://codeforwin.org/2015/06/c-program-to-print-table-of-any-number.html).
9. [Write a C program to count number of digits in a number](https://codeforwin.org/2016/10/c-program-to-count-number-of-digits-in-number.html).
10. [Write a C program to find first and last digit of a number](https://codeforwin.org/2015/06/how-to-find-first-and-last-digit-of-any-number.html).
11. [Write a C program to find sum of first and last digit of a number.](https://codeforwin.org/2015/06/c-program-to-find-sum-of-first-and-last-digit-of-number.html)
12. [Write a C program to swap first and last digits of a number](https://codeforwin.org/2016/01/c-program-to-swap-first-and-last-digit-of-number.html).
13. [Write a C program to calculate sum of digits of a number](https://codeforwin.org/2015/06/c-program-to-calculate-sum-of-digits.html).
14. [Write a C program to calculate product of digits of a number](https://codeforwin.org/2015/06/c-program-to-calculate-product-of-digits.html).
15. [Write a C program to enter a number and print its reverse](https://codeforwin.org/2015/06/c-program-to-find-reverse-of-any-number.html).
16. [Write a C program to check whether a number is palindrome or not.](https://codeforwin.org/2015/06/c-program-to-check-whether-number-is-palindrome-or-not.html)
17. [Write a C program to find frequency of each digit in a given integer](https://codeforwin.org/2016/10/c-program-to-count-frequency-of-digits-in-number.html).
18. [Write a C program to enter a number and print it in words.](https://codeforwin.org/2015/06/c-program-to-print-numbers-in-words.html)
19. [Write a C program to print all ASCII character with their values](https://codeforwin.org/2015/06/c-program-to-print-ascii-values-of-all-characters.html).
20. [Write a C program to find power of a number using for loop](https://codeforwin.org/2015/07/c-program-to-find-power-of-number-using-for-loop.html).
21. [Write a C program to find all factors of a number](https://codeforwin.org/2015/06/c-program-to-print-factors-of-any-number.html).
22. [Write a C program to calculate factorial of a number](https://codeforwin.org/2015/06/c-program-to-calculate-factorial-of-any-number.html).
23. [Write a C program to find HCF (GCD) of two numbers](https://codeforwin.org/2015/06/c-program-to-find-hcf-of-two-numbers.html).
24. [Write a C program to find LCM of two numbers](https://codeforwin.org/2015/06/c-program-to-find-lcm-of-two-numbers.html).
25. [Write a C program to check whether a number is Prime number or not.](https://codeforwin.org/2015/06/c-program-to-check-prime-number.html)
26. [Write a C program to print all Prime numbers between 1 to n.](https://codeforwin.org/2015/06/c-program-to-print-all-prime-numbers-between-1-to-n.html)
27. [Write a C program to find sum of all prime numbers between 1 to n](https://codeforwin.org/2015/06/c-program-to-find-sum-of-all-prime.html).
28. [Write a C program to find all prime factors of a number](https://codeforwin.org/2015/06/c-program-to-find-all-prime-factors-of-any-number.html).
29. [Write a C program to check whether a number is Armstrong number or not.](https://codeforwin.org/2015/06/c-program-to-check-armstrong-number.html)
30. [Write a C program to print all Armstrong numbers between 1 to n.](https://codeforwin.org/2015/06/c-program-to-print-first-n-armstrong-numbers.html)
31. [Write a C program to check whether a number is Perfect number or not](https://codeforwin.org/2015/06/c-program-to-check-perfect-number.html).
32. [Write a C program to print all Perfect numbers between 1 to n](https://codeforwin.org/2015/06/c-program-to-print-all-perfect-numbers-between-1-to-n.html).
33. [Write a C program to check whether a number is Strong number or not](https://codeforwin.org/2015/06/c-program-to-check-strong-number.html).
34. [Write a C program to print all Strong numbers between 1 to n](https://codeforwin.org/2015/06/c-program-to-print-all-strong-numbers.html).
35. [Write a C program to print Fibonacci series up to n terms](https://codeforwin.org/2015/06/fibonacci-series-in-c-program.html).
36. [Write a C program to find one’s complement of a binary number](https://codeforwin.org/2015/08/c-program-to-find-ones-complement-of-binary-number.html).
37. [Write a C program to find two’s complement of a binary number](https://codeforwin.org/2015/08/c-program-to-find-twos-complement-of-binary-number.html).
38. [Write a C program to convert Binary to Octal number system](https://codeforwin.org/2015/08/c-program-to-convert-binary-to-octal-number-system.html).
39. [Write a C program to convert Binary to Decimal number system](https://codeforwin.org/2015/08/c-program-to-convert-binary-to-decimal-number-system.html).
40. [Write a C program to convert Binary to Hexadecimal number system](https://codeforwin.org/2015/08/c-program-to-convert-binary-to-hexadecimal-number-system.html).
41. [Write a C program to convert Octal to Binary number system](https://codeforwin.org/2015/08/c-program-to-convert-octal-to-binary-number-system.html).
42. [Write a C program to convert Octal to Decimal number system](https://codeforwin.org/2015/08/c-program-to-convert-octal-to-decimal-number-system.html).
43. [Write a C program to convert Octal to Hexadecimal number system](https://codeforwin.org/2015/08/c-program-to-convert-octal-to-hexadecimal-number-system.html).
44. [Write a C program to convert Decimal to Binary number system](https://codeforwin.org/2015/08/c-program-to-convert-from-decimal-to-binary-number-system.html).
45. [Write a C program to convert Decimal to Octal number system](https://codeforwin.org/2015/08/c-program-to-convert-decimal-to-octal-number-system.html).
46. [Write a C program to convert Decimal to Hexadecimal number system](https://codeforwin.org/2015/08/c-program-to-convert-decimal-to-hexadecimal-number-system.html).
47. [Write a C program to convert Hexadecimal to Binary number system](https://codeforwin.org/2015/08/c-program-to-convert-hexadecimal-to-binary-number-system.html).
48. [Write a C program to convert Hexadecimal to Octal number system](https://codeforwin.org/2015/09/c-program-to-convert-hexadecimal-to-octal-number-system.html).
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## Star patterns :



