**SECTION-1**

**Simple C Programs: Write Algorithm , Pseudocode and draw flowchart for the First 5 programs in this Section**

1. [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).
2. [Write a C program to enter two numbers and find their sum.](https://codeforwin.org/2015/05/c-program-to-add-two-numbers.html)
3. [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)
4. [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)
5. [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)
6. [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)
7. [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)
8. [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)
9. [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)
10. [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).
11. [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)
12. [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)
13. [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)
14. [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)
15. [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)
16. [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)
17. [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)
18. [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).
19. Swap two numbers using bitwise operators
20. Swap two numbers a) using temporary variable b) without using temporary variable

**SECTION-2**

**Programs on Conditional Statements: Write Algorithm , Pseudocode and draw flowchart for the program numbers 1,2, 37,38,40 in this Section**

1. [Write a C program to find maximum between two numbers](https://codeforwin.org/2015/05/c-program-to-find-maximum-between-two-numbers.html)
2. [Write a C program to find maximum between three numbers.](https://codeforwin.org/2015/05/c-program-to-find-maximum.html) using nested if…else
3. [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)
4. [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)
5. [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)
6. [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)
7. [Write a C program to check whether a character is alphabet or not.](https://codeforwin.org/2015/05/c-program-to-check-alphabet.html)
8. [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)
9. Write a C program to accept a coordinate point in a XY coordinate system and determine in which quadrant the coordinate point lies
10. [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)
11. [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)
12. [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)
13. [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)
14. [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)
15. [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)
16. [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)
17. [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).
18. Write a C program to calculate the root of a Quadratic Equation
19. Write a C program to read temperature in centigrade and display a suitable message according to temperature state below :

Temp < 0 then Freezing weather

Temp 0-10 then Very Cold weather

Temp 10-20 then Cold weather

Temp 20-30 then Normal in Temp

Temp 30-40 then Its Hot

Temp >=40 then Its Very Hot

1. Write a program in C to calculate and print the Electricity bill of a given customer. The customer id., name and unit consumed by the user should be taken from the keyboard and display the total amount to pay to the customer. The charge are as follow :

|  |  |
| --- | --- |
| **Unit** | **Charge/unit** |
| upto 199 | @1.20 |
| 200 and above but less than 400 | @1.50 |
| 400 and above but less than 600 | @1.80 |
| 600 and above | @2.00 |

If bill exceeds Rs. 400 then a surcharge of 15% will be charged and the minimum bill should be of Rs. 100/-

Write the program using Else..if ladder