# Assignment-I

## C Programming Exercises

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).
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)
3. [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)
4. program to print all even numbers between 1 to 100.
5. [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)
6. [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)
7. [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).
8. [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).
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 enter a number and print its reverse](https://codeforwin.org/2015/06/c-program-to-find-reverse-of-any-number.html).
13. [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)
14. [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).
15. [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)
16. [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).
17. [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).
18. [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).
19. [Write a C program to calculate factorial of a number](https://codeforwin.org/2015/06/c-program-to-calculate-factorial-of-any-number.html).
20. [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).
21. [Write a C program to find LCM of two numbers](https://codeforwin.org/2015/06/c-program-to-find-lcm-of-two-numbers.html).
22. [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)
23. [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)
24. [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).
25. [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).
26. [Write a C program to print Fibonacci series up to n terms](https://codeforwin.org/2015/06/fibonacci-series-in-c-program.html).

## Pattern Exercises

1. [Star pattern programs - Write a C program to print the given star patterns.](https://codeforwin.org/2015/07/star-patterns-program-in-c.html)

[\*](https://codeforwin.org/2015/07/equilateral-triangle-star-pattern-program-in-c.html)

[\*\*\*](https://codeforwin.org/2015/07/equilateral-triangle-star-pattern-program-in-c.html)

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[Pyramid Star Pattern](https://codeforwin.org/2015/07/equilateral-triangle-star-pattern-program-in-c.html)

[\*](https://codeforwin.org/2015/07/c-program-to-print-hollow-pyramid-star-pattern.html)

[\* \*](https://codeforwin.org/2015/07/c-program-to-print-hollow-pyramid-star-pattern.html)

[\* \*](https://codeforwin.org/2015/07/c-program-to-print-hollow-pyramid-star-pattern.html)

[\* \*](https://codeforwin.org/2015/07/c-program-to-print-hollow-pyramid-star-pattern.html)

[\*\*\*\*\*\*\*\*\*](https://codeforwin.org/2015/07/c-program-to-print-hollow-pyramid-star-pattern.html)

1. [Number pattern programs - Write a C program to print the given number patterns](https://codeforwin.org/2016/06/number-pattern-programs-in-c.html)

**Square number patterns**

[11111](https://codeforwin.org/2016/06/c-program-to-print-0-1-square-number-pattern.html)

[11111](https://codeforwin.org/2016/06/c-program-to-print-0-1-square-number-pattern.html)

[11111](https://codeforwin.org/2016/06/c-program-to-print-0-1-square-number-pattern.html)

[11111](https://codeforwin.org/2016/06/c-program-to-print-0-1-square-number-pattern.html)

[11111](https://codeforwin.org/2016/06/c-program-to-print-0-1-square-number-pattern.html)

[**Number pattern 1**](https://codeforwin.org/2016/06/c-program-to-print-0-1-square-number-pattern.html)

[11111](https://codeforwin.org/2016/06/c-program-to-print-number-pattern-with-0-1-at-alternate-rows.html)

[00000](https://codeforwin.org/2016/06/c-program-to-print-number-pattern-with-0-1-at-alternate-rows.html)

[11111](https://codeforwin.org/2016/06/c-program-to-print-number-pattern-with-0-1-at-alternate-rows.html)

[00000](https://codeforwin.org/2016/06/c-program-to-print-number-pattern-with-0-1-at-alternate-rows.html)

[11111](https://codeforwin.org/2016/06/c-program-to-print-number-pattern-with-0-1-at-alternate-rows.html)

## If…Else Exercises

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)
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 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)
10. [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).
11. [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

1. [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%