1. Questions on Simple C Concepts and Decision Making (Branching) Structures

- 2. How will you print "Hello World" without semicolon?
- 3. Write a C program to read and print your name, date of birth. and mobile number.
- 4. Write a C program to perform input/output of all basic data types.
- 5. Write a C program to enter two numbers and perform all arithmetic operations.
- 6. Write a C program to enter length and breadth of a rectangle and find its area and perimeter.
- 7. Write a C program to enter radius of a circle and find its diameter, circumference and area.
- 8. Write a C program to enter length in centimeter and convert it into meter and kilometer.
- 9. Write a C program to find power of any number x ^ y.
- 10. Write a C program to enter any number and calculate its square root.
- 11. Write a C program to enter two angles of a triangle and find the third angle.
- 12. Write a C program to enter base and height of a triangle and find its area. Write a C program to calculate area of an equilateral triangle.
- 13. Write a C program to enter marks of five subjects and calculate total, average and percentage.
- 14. Write a C program to show the usage of different escape sequences.

15. Write a C program to print a block F using hash (#), where the F has a height of six characters and width of five and four characters.



16. Write a C program to print a big 'C' using hash (#) as follows.

```
######
## ##
#
#
#
#
#
#
## ##
##
```

- 17. Write a C program to compute the perimeter and area of a rectangle with a height of 7 inches. and width of 5 inches.
- 18. Write a C program to compute the perimeter and area of a circle with a radius of 6 inches.
- 19. Write a C program to find the area of a CUBE, CONE, CYLINDER and TRAPEZIUM.
- 20. Write a C program to display the values stored in multiple variables belonging to different data types.

- 21. Write a C program to declare and display the size of 'int', 'float', 'char', 'short', 'long', 'double', 'long double' variables.
- 22. Write a C program to convert specified days into years, weeks and days. Note: Ignore leap year.
- 23. Write a C program that accepts two item's weight (floating points' values) and number of items (floating points' values) and calculate the average value of the items.
- 24. Write a C program that accepts an employee's ID, total worked hours of a month and the amount he received per hour. Print the employee's ID and salary (with two decimal places) of a particular month.
- 25. Write a C program that accepts three integers and find the maximum of three.
- 26. Write a C program to calculate the distance between the two points.
- 27. Write a C program to read an amount (integer value) and break the amount into smallest possible number of bank notes.
- 28. Write a C program that read 5 numbers and sum of all odd values between them without using loops and arrays.
- 29. Write a C program that reads three floating values and check if it is possible to make a triangle with them. Also calculate the perimeter of the triangle if the said values are valid.
- 30. Write a C program that reads an integer between 1 and 12 and print the month of the year in English using enumerations.
- 31. Write a C program that read 5 numbers and counts the number of positive numbers and negative numbers.
- 32. Write a C program to check a given integer is positive even, negative even, positive odd or negative odd. Print even if the number is 0.
- 33. Write a C program that accepts some integers from the user and find the highest value and its position without using loops and arrays.

- 34. Write a C program to check if two numbers in a pair is in ascending order or descending order.
- 35. Write a C program to read a password until it is correct. For wrong password print "Incorrect password" and for correct password print "Correct password" and quit the program. The correct password is 1234.
- 36. Write a C program that reads an integer and find all its divisor.
- 37. Write a C program to read an array of length 5 and print the position and value of the array elements of value less than 5.
- 38. Write a C program to read an array of length 6, change the first element by the square of last element, the second element by the cube of fifth element and the third element by the square root of the fourth element. Print the elements of the modified array.
- 39. Write a C program that accepts a distance in centimeters and prints the corresponding value in inches.
- 40. Write a C program that swaps two numbers without using third variable.
- 41. Write a C program to shift given number by two bits to the left.
- 42. Write a C program to check Least Significant Bit (LSB) of a number is set or not using bitwise operators.
- 43. Write a C program to get nth bit of a number using bitwise operators.
- 44. Write a C program to set nth bit of a number using bitwise operators.
- 45. Write a C program to toggle nth bit of a number using bitwise operators.
- 46. Write a C program to count trailing zeros in a binary number using bitwise operators.

- 47. Write a C program to count leading zeros in a binary number using bitwise operators.
- 48. Write a C program to count total zeros and ones in a binary number using bitwise operators.
- 49. Write a C program that accepts 4 real (float) numbers from the keyboard and display the difference of the maximum and minimum values of these four numbers.
- 50. Write a C program to create enumerated data type for 7 days and display their values in integer constants.
- 51. Write a C program to find if a person is an adult using ternary operator (conditional operator).
- 52. Write a C program to find if a number is positive, negative or zero using ternary operator (conditional operator).
- 53. Write a C program that accepts a positive integer less than 500 and prints out the sum of the digits of this number.
- 54. Write a C program that accepts integers from the user until a zero or a negative number, display the number of positive values, the minimum value, the maximum value and the average of all numbers.
- 55. Write a C programming that reads in two integers and check whether the first integer is a multiple of the second integer.
- 56. Write a C programming to display the integer equivalents of letters (a-z, A-Z).
- 57. Write a C programming to demonstrates the difference between predecrementing and postdecrementing, preincrement and postincrement.
- 58. Write a C programming that reads the side (side sizes between 1 and 10) of a square and prints square using hash (#) character.
- 59. Write a C programming that reads the side (side sizes between 1 and 10) of a square and prints a hollow square using hash (#) character (i.e print '#' in only the borders).

- 60. Write a C programming which reads an integer (7 digits or fewer) and count number of 3s in the given number.
- 61. Write a C programming to print a table of all the Roman numeral equivalents of the decimal numbers in the range 1 to 50.
- 62. Write a C program to find area and circumference of circle.
- 63. Write a C program to find area of equilateral triangle.
- 64. Write a C program that reads an integer between 1 and 12 and print the month of the year in English using switch statement.
- 65. Write a C program to accept two integers and check whether they are equal or not.
- 66. Write a C program to read the age of a candidate and determine whether it is eligible for casting his/her own vote.
- 67. Write a C program to Check Whether a Character is Vowel or consonant.
- 68. Write a C program to Check Whether a Number is Even or Odd.
- 69. Write a C program to Check Whether a Character is an Alphabet or not.
- 70. Write a C program to display a number if user enters negative number.
- 71. Write a C program to convert a decimal number to character below 1000.
- 72. Write a C program to check whether a number is even or odd using conditional operator.
- 73. Write a C program to check whether year is leap year or not using conditional operator.
- 74. Write a C program to check whether character is an alphabet or not using conditional operator.

- 75. Write a C program to implement the sign function using if-else ladder.
- 76. Write a C program using if- else ladder to enter two number and check they are equal, grater or less to each other.
- 77. Write a C program using if- else ladder to enter a number and check divisible by both 5 and 8, divisible by 8, divisible by 5 or divisible by none.
- 78. Write a C program to input any character and check whether it is alphabet, digit or special character using if-else ladder.
- 79. Write a C program to input week number and print week day using if-else ladder.
- 80. Write a C program to input month number and print number of days in that month using if-else ladder.
- 81. Write a C program to count total number of notes in given amount using if-else ladder.
- 82. Write a C program to input all sides of a triangle and check whether triangle is valid or not using nested-if statement.

83. Write a C program using if-else ladder to input basic salary of an employee and calculate its Gross salary according to following:

84. Write a C program using if-else ladder to input electricity unit charges and calculate total electricity bill according to the given condition:

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

- 85. Write a C program to check whether a triangle is Equilateral, Isosceles or Scalene using if-else ladder.
- 86. Write a C program to check whether a triangle can be formed by the given value for the angles.
- 87. Write a C program to check whether a character is an alphabet, digit or special character using if-else ladder.
- 88. Write a program in C to read any digit, display it in the word using switch case.
- 89. Write a program in C to accept subject marks and declare the equivalent grade using switch statement
- 90. Write a C program to print day of week name using switch case.
- 91. Write a C program print total number of days in a month using switch case.
- 92. Write a C program to check whether an alphabet is vowel or consonant using switch case.
- 93. Write a C program to find maximum between two numbers using switch case.
- 94. Write a C program to check whether a number is even or odd using switch case.
- 95. Write a C program to check whether a number is positive, negative or zero using switch case.
- 96. Write a C program to create Simple Calculator using switch case.
- 97. Write a program in C which is a Menu-Driven Program to perform a simple arithmetic operation on two input numbers using switch case.
- 98. Write a program in C which is a Menu-Driven Program to compute the area of the various geometrical shape using switch case.

2. Questions on Looping Structures

- 1. Write a program in C to display the first 'n' natural numbers using both 'for' and 'while' loops.
- 2. Write a C program to find the sum of first 10 natural numbers.
- 3. Write a program in C to read 10 numbers from keyboard and find their sum and average.
- 4. Write a program in C to display the cube of the numbers up to a given limit. 1,8,27,.....n
- 5. Write a program in C to display the multiplication table of a given integer.
- 6. Write a program in C to display the n terms of odd natural number and their sum.
- 7. Write a C program that prints all even numbers between 1 and 50 (inclusive).
- 8. Write a C program to calculate the factorial of a given number.
- 9. Write a program in C to display the number in reverse order.
- 10. Write a program in C to find the number and sum of all integer between 100 and 200 which are divisible by 9.
- 11. Write a program in C to display the sum of the series [9 + 99 + 999 + 9999 ...n].
- 12. Write a C program to print all natural numbers from 1 to n. using while loop.
- 13. Write a C program to print all natural numbers in reverse (from n to 1) using while loop.
- 14. Write a C program to print all alphabets from a to z. using do-while loop.

- 15. Write a C program to print all even numbers between 1 to 100. using do-while loop.
- 16. Write a C program to count number of digits in a number.
- 17. Write a C program to find sum of first and last digit of a number.
- 18. Write a C program to swap first and last digits of a number.
- 19. Write a C program to find frequency of each digit in a given integer.
- 20. Write a C program to print all ASCII character with their values.
- 21. Write a C program to find power of a number using for loop.
- 22. Write a C program to find all factors of a number.
- 23. Write a C program to find all prime factors of a number.
- 24. Write a c program to check whether a given number is a perfect number or not.
- 25. Write a c program to display the perfect numbers within a given range.
- 26. Write a c program to display the strong numbers within a given range.
- 27. Write a c program to find the first 'n' perfect numbers.
- 28. Write a C program to display palindrome numbers in a given range.
- 29. Write a C program to find the Armstrong number between two range of numbers.
- 30. Write a C program to display first 'n' prime or numbers.
- 31. Write a program in C to find the sum of the series $1 + 11 + 111 + 1111 + \dots n$.
- 32. Write a program in C to find the sum of the series [$x x^3 + x^5 + \dots$].

33. Write a program in C to display the n terms of harmonic series and their sum as follows.

$$1 + 1/2 + 1/3 + 1/4 + 1/5 \dots 1/n \text{ terms}$$

- 34. Write a program in C to display the n terms of square natural numbers (1 4 9 16 ... n Terms) and their sum.
- 35. Write a C program to find LCM of two Numbers.
- 36. Write a C program to find HCF of two Numbers.
- 37. Write a program in C to find LCM of any two numbers using HCF.
- 38. Write a C program to find GCD Using 'for' loop and 'if' Statement.
- 39. Write a C program to find GCD for both positive and negative numbers.
- 40. Write a C Program to print Fibonacci series in a given range.
- 41. Write a C program to calculate the sum of all number not divisible by 17 between 1 to 500.
- 42. Write a C program to find all the numbers which upon dividing it by 7 gives the remainder equal to 2 or 3 between 1 to 500.
- 43. Write a C program to print a number, it's square and cube in a line starting from 1 to 10.
- 44. Write a program in C to Check Whether a Number can be Express as Sum of Two Prime Numbers.
- 45. Write a C program to calculate the average marks of mathematics of 'n' students. Input 0 or negative value to terminate the input process.
- 46. Write a C program to calculate S = 1 + 1/2 + 1/3 + ... + 1/50.
- 47. Write a C program to calculate $S = 1 + 3/2 + 5/4 + 7/8 \dots n/m$.

- 48. Write a C program to print the powers of 2 table for the numbers 0 to 10, both positive and negative.
- 49. Write a C Program to convert Decimal to Binary and vice versa with and without using an array.
- 50. Write a C Program to convert Decimal to Octal and vice versa with and without using an array.
- 51. Write a program in C to convert a decimal number to hexadecimal and vice versa.
- 52. Write a C program to convert Octal to Hexadecimal number system and vice versa.
- 53. Write a C program to convert Hexadecimal to Binary number system and vice versa.
- 54. Write a C program to convert Hexadecimal to Octal number system and vice versa.
- 55. Write a C program to print half pyramid using * as follows.

.

* *

* * *

* * * *

56. Write a C program to print half pyramid using numbers as follows.

1

12

123

1234

12345

57. Write a C program to print inverted half pyramid using * as follows.

* * * *

* * *

* *

*

*

58. Write a C program to print inverted half pyramid using numbers as follows.

1 2 3 4 5

1234

123

1 2

1

59. Write a C program to print full pyramid using numbers as follows.

 $2\ 3\ 2$

2 4 5

3 4 5 4 3

 $4\; 5\; 6\; 7\; 6\; 5\; 4$

567898765

60. Write a C program to print PASCAL'S triangle using numbers as follows.

 $\begin{matrix}1\\1&1\\1&2&1\end{matrix}$

1 5 10 10 5 1

1 3 10 10 3 1

1 6 15 20 15 6 1

1 7 21 35 35 21 7 1

61. Write a C program to print FLOYD'S triangle using numbers as follows.

1

23

456

78910

62. Write a program in C to display the pattern like a diamond.

*

*

63. Write a C Program to display the pattern like pyramid using the alphabet.

 \mathbf{A}

ABA

ABCBA

ABCDCBA

3. Questions on 1-D & 2-D Arrays

- 1. Write a program in C to store elements in an array and print it.
- 2. Write a program in C to read n number of values in an array and display it in reverse order.
- 3. Write a program in C to find the sum of all elements of the array.
- 4. Write a program in C to copy the elements of one array into another array.
- 5. Write a C program to find maximum and minimum element in an array.
- 6. Write a C program to count total number of even and odd elements in an array
- 7. Write a C program to read and print the elements of an array of length 7, before print replace every negative number, zero with 100.
- 8. Write a program in C to count a total number of duplicate elements in an array.
- 9. Write a C program to delete all duplicate elements from an array.
- 10. Write a program in C to print all unique elements in an array.
- 11. Write a program in C to merge two arrays of same size sorted in descending order.
- 12. Write a program in C to count the frequency of each element of an array.
- 13. Write a C Program to Find the Number of Non Repeated Elements in an array.
- 14. Write a C Program to identify missing Numbers in a given sorted array.
- 15. Write a C Program to Segregate 0s on Left Side & 1s on right side of the Array.
- 16. Write a C Program to Find the two Elements such that their Sum is Closest to Zero.
- 17. Write a C Program to Find if a given Integer X appears more than $\rm N/2$ times in a Sorted Array of N Integers.

- 18. Write a program in C to find the maximum and minimum element in an array.
- 19. Write a C Program to Find 2 Elements in the Array such that Difference between them is Largest.
- 20. Write a program in C to separate odd and even integers in separate arrays.
- 21. Write a program in C to calculates the standard deviation of 10 data using arrays.
- 22. Write a C program to left rotate /right rotate an array by 'n' number of places.
- 23. Write a C Program to Check Array bounds while Inputting Elements into the array.
- 24. Write a C Program to Find Union & Intersection of 2 Arrays.
- 25. Write a C Program to Find the Median of the Elements after Merging these 2 Sorted Arrays with Same Size.
- 26. Write a C program to search an element in an array.
- 27. Write a C program to sort even and odd elements of array separately.
- 28. Write a program in C to insert New value in the array (sorted list).
- 29. Write a program in C to insert New value in the array (unsorted list) at a specific place.
- 30. Write a program in C to delete an element at desired position from an array.
- 31. Write a program in C to find the second largest/ second smallest element in an array.
- 32. Write a program in C to determine whether an array is sparse or dense.
- 33. Write a program in C to find majority element of an array.
- 34. Write a program in C to find largest number possible from the set of given numbers.

- 35. Write a program in C to find four array elements whose sum is equal to given number.
- 36. Write a program in C to count all distinct pairs for a specific difference.
- 37. Write a program in C to print all possible combinations of 'n' elements in a given array as follows.

The given array is: $1\ 5\ 4\ 6\ 8$ The combination from by the number of elements are: 3

The	combi	are:	
1	5	$oldsymbol{4}$	6
1	5	4	8
1	5	6	8
1	$\overline{4}$	6	8
$\bar{5}\ 4\ 6\ 8$		-	-

- 38. Write a program in C to return true if an array can be splitted in such a position that, the sum of left side of the splitting is equal to the sum of the right side.
- 39. Write a program in C to return the number of clumps (a series of 2 or more adjacent elements of the same value) in a given array.
- 40. Write a program in C to rearrange an array in such an order that—smallest, largest, 2nd smallest, 2nd largest and on.
- 41. Write a program in C to update every array element with multiplication of previous and next numbers in array.
- 42. Write a C program for Given an array A[] and a number x, check for pair in A[] with sum as x.
- 43. Write a C program for Find the Numbers Occurring Odd Number of Times.
- 44. Write a C program for Largest Sum Contiguous Subarray of size 3.
- 45. Write a C program for Maximum difference between two elements such that larger element appears after the smaller number.
- 46. Write a C program for Check if array elements are consecutive.
- 47. Write a C program for Find the smallest missing number.

- 48. Write a C program for Find the minimum distance between two numbers in an array.
- 49. Write a C program for Find subarrays with given sum.
- 50. Write a C program for Maximum Product Subarray in a given array.
- 51. Write a C program for Find four elements that sum to a given value in an array.
- 52. Write a program in C to sort elements of array in ascending/descending order using bubble sort.
- 53. Write a program in C to sort elements of array in ascending/descending order using selection sort.
- 54. Write a program in C to sort elements of array in ascending/descending order using insertion sort.
- 55. Write a program in C to sort elements of array in ascending/descending order using merge sort.
- 56. Write a program in C to sort elements of array in ascending/descending order using quick sort.
- 57. Write a C program to Merge and Sort Elements of 2 different arrays.
- 58. Write a C program to Merge the Elements of 2 Sorted array.
- 59. Write a C program to Split an array from specified position and add first part to the end.
- 60. Write a C Program to accept Sorted array and do Search using Binary Search.
- 61. Write a program in C to read a 2D array of size 3x3 and print the matrix.
- 62. Write a program in C for addition of two Matrices of same size.
- 63. Write a program in C to search an element in a row wise and column wise sorted matrix.
- 64. Write a program in C to find transpose of a given matrix.

- $65. Write \ a \ program \ in \ C$ to find sum of principal diagonals/secondary diagonals elements of a matrix.
- 66. Write a program in C to find sum of rows and columns of a Matrix.
- 67. Write a C program to perform Scalar matrix multiplication.
- 68. Write a C program to interchange diagonals/columns of a matrix.
- 69. Write a C program to check for an Identity matrix.
- 70. Write a C Program to Sort Rows of the Matrix in Ascending & Columns in Descending Order.
- 71. Write a C Program to Find the Frequency of Odd & Even Numbers in the given Matrix .
- 72. Write a C Program to Accept a Matrix of Order MxN & Interchange the Diagonals.
- 73. Write a program in C to print the four corner elements of a matrix.
- 74. Write a program in C to print the sum of border elements of a matrix.
- 75. Write a program in C to print or display the lower triangular/upper triangular of a given matrix.
- 76. Write a program in C to find the sum of upper triangular and lower triangular elements of a matrix.
- 77. Write a program in C to calculate determinant of a 3 x 3 matrix.
- 78. Write a program in C to accept a matrix and determine whether it is a sparse/dense matrix.
- 79. Write a program in C to check whether a given matrix is an identity matrix.
- 80. Write a program in C to print a matrix in spiral form as follows.

1	2	3	4	$\begin{array}{c} 5 \\ 10 \end{array}$
6	7	8	9	10

	11 16 17 18 19 20	12	13		14	15
The	spiral	form	of	above	matrix	is:
1 2 3 4	4 5 10 15 20 19 1	8 17 16 11	678914	4 13 12		

- $81.Write\ a\ program\ in\ C$ to print only the unique rows from a given binary matrix having only 1s and 0s.
- $82. \\ Write a program in C to find maximum size square sub-matrix.$

4. Questions on Strings

- 1. Write a program in C to input a string and print it.
- 2. Write a C program to find the length of a string without using strlen()
- 3. Write a program in C to print individual characters of string in reverse order.
- 4. Write a program in C to count total number of alphabets, digits and special characters in a string.
- 5. Write a program in C to count total number of vowel or consonant in a string.
- 6. Write a program in C to find maximum occurring character in a string.
- 7. Write a program in C to read a sentence and replace lowercase characters by uppercase and vice-versa.
- 8. Write a program in C to Find the Frequency of Characters.
- 9. Write a program in C to check how many characters in the string are Hexadecimal Digits.
- 10. Write a program in C to replace the spaces of a string with a '*'.
- 11. Write a C Program to Remove all Characters in Second String which are present in First String.
- 12. Write a program in C to count the total number of words in a string.
- 13. Write a program in C to remove characters in String Except Alphabets.
- 14. Write a C Program to Check if a String is a Palindrome without using the Built-in Function .
- 15. Write a C Program to Display the Characters in Prime Positions in a given String.
- 16. Write a C Program to find First and Last Occurrence of given Character in a String .
- 17. Write a C Program to Find the Most/Least Repeated Character in the String.

- 18. Write a C Program to Determine if One String is a Circular Permutation of Another String .
- 19. Write a C program to concatenate two strings without using streat().
- 20. Write a C program to copy one string to another without using strcpy().
- 21. Write a C program to compare two string for their alphabetical order without using strcmp().
- 22. Write a C program to Sort 'n' number of strings in alphabetical order without using strlen(), strcmp() and strcpy().
- 23. Write a program in C to extract a substring from a given string.
- 24. Write a C program to check whether a given substring is present in the given string.
- 25. Write a program in C to find the number of times a given word 'the' appears in the given string.
- 26. Write a program in C to find the alphabetically largest and smallest word in a string.
- 27. Write a program in C to print only the substring before new line character.
- 28. Write a program in C to print all the substrings between two characters.
- 29. Write a program in C to remove all the spaces in a string and shift the characters.
- 30. Write a C Program to Accept 2 String & check whether all Characters in first String is Present in second String.
- 31. Write a C Program to Find the Largest & Smallest Word in a String.
- 32. Write a C Program to Count the Number of Occurrence of each Character Ignoring the Case of Alphabets & Display them.
- 33. Write a C Program To Print Smallest and Biggest possible Word which is Palindrome in a given String.
- 34. Write a C Program to Reverse every Word of given String .
- 35. Write a C Program to Delete All Repeated Words in String.
- 36. Write a C Program to find Longer Repeating Sequence.
- 37. Write a C Program to Find the Frequency of Every Word in a given String .

- 38. Write a C Program to Find the Length of the Longest Repeating Sequence in a String .
- $39. \, \mathrm{Write}$ a C Program to Check whether two Strings are Anagrams.
- 40. Write a C Program to Print the Words Ending with Letter S.
- 41. Write a C Program to Insert Character/Word in any Desired Location in a String.
- 42. Write a C Program to Search a Word & Replace it with the Specified Word.

5. Questions on Functions

- 1. Write a program in C to find the square of any number using the function.
- 2. Write a C program to find cube of any number using function.
- 3. Write a C program to find diameter, circumference and area of circle using functions.
- 4. Write a C program to find maximum and minimum between two numbers using functions.
- 5. Write a program in C to swap two numbers using function.
- 6. Write a program in C to check a given number is even or odd using the function.
- 7. Write a program in C to find the factorial of a number.
- 8. Write a program in C to find the sum of the series 1!/1+2!/2+3!/3+4!/4+5!/5 using the function.
- 9. Write a program in C to convert decimal number to binary number using the function.
- 10. Write a program in C to check whether a number is a prime number or not using the function.
- 11. Write a C program to find all prime numbers between given interval using functions.
- 12. Write a program in C to check armstrong and perfect numbers using the function.
- 13. Write a program in C to print all perfect numbers in given range using the function.
- 14. Write a program in C to get the largest element of an array using the function.

- 15. Write a program in C to check whether two given strings are an anagram using the function.
- * Implement all the previous arrays and strings topic questions using functions.

6. Questions on Recursion

- 1. Write a program in C to print first 50 natural numbers using recursion.
- 2. Write a program in C to calculate the sum of numbers from 1 to n using recursion.
- 3. Write a C program to print all even or odd numbers in given range using recursion.
- 4. Write a C program to find reverse of any number using recursion.
- 5. Write a program in C to find the Factorial of a number using recursion.
- 6. Write a program in C to Print Fibonacci Series using recursion.
- 7. Write a program in C to print the array elements using recursion.
- 8. Write a C program to find sum of elements of array using recursion.
- 9. Write a C program to find maximum and minimum elements in array using recursion.
- 10. Write a program in C to count the digits of a given number using recursion.
- 11. Write a program in C to find the sum of digits of a number using recursion.
- 12. Write a program in C to find GCD of two numbers using recursion.
- 13. Write a program in C to convert a decimal number to binary using recursion.
- 14. Write a program in C to check a number is a prime number or not using recursion.
- 15. Write a program in C to find the LCM of two numbers using recursion.
- 16. Write a C Program to find HCF of a given Number using Recursion.
- 17. Write a C Program to Print Binary Equivalent of an Integer using Recursion
- 18. Write a program in C to print even or odd numbers in given range using recursion.
- 19. Write a program in C to calculate the power of any number using recursion.

- 20. Write a program in C to find the Hailstone Sequence of a given number.
- 21. Write a program in C to get the largest element of an array using recursion.
- 22. Write a C Program to find the Length of the String using Recursion
- 23. Write a program in C to reverse a string using recursion.
- 24. Write a program in C to Check whether a given String is Palindrome or not using recursion.
- 25. Write a program in C to copy One string to another using recursion.
- 26. Write a program in C to find the first capital letter in a string using recursion.
- 27. Write a program in C to multiply two matrix using recursion.
- 28. Write a program in C for binary search using recursion.
- 29. Write a program in C for merge sort using recursion.
- 30. Write a C Program to Implement Selection Sort Recursively.
- 31. Write a C Program to Perform Quick Sort using Recursion.
- 32. Write a C Program to Solve Tower-of-Hanoi Problem using Recursion.