sample C Programs

1. Given year is a leap year or not?

2. multiply the given number by 4 using bitwise operators?

3. compute a^b (power) with a and b as inputs?

4. swap the two numbers using the Bitwise XOR operator without using athematic and temporary variables?

5. c program to find a root of quadratic equation if not possible display proper error message?

6. write a c program to accept a list of data items and search II largest and smallest and find their average of that both &search for that number. Display appropriate message on successful search?

7. program to arrange the given numbers in ascending order?

8. program to convert a given binary number to decimal?

9. program to reverse the given integer?

10. program to determine whether the given number is odd?

11. program to find the largest among the three.

12. program to find the area of different geometrical figures using switch statement?

13. program to find the factorial of a given number?

14. program to accept a string and find the sum of all digits in the string?

15. program to illustrate for loop without initial and increment/decrement expressions.

16. program to generate the Fibonacci series.

17. program to take a number in decimal and convert it to binary and count the number of 1s present in binary.

18. program to find the GCD and LCM of given two integers and print with given integers. Use Euclids’ algorithm.

19. program to find a sum of odd and even numbers from 1 to N. and print the computed sums in different lines.

20. program to find the sum of the sine series.

21. program to find the sum of the cos(x) series.

22. program to check whether a given number is prime or not and output with a suitable message.

23. program to generate and print prime numbers in a given range. Also, print the number of prime numbers.

24. Write to accept a 1-dimensional array of N elements & split it into two halves & sort 1st half in ascending order and 2nd in descending order.

25. program to delete the desired elements from the list.

26. wap to interchange the main diagonal element with the secondary diagonal elements.

27. program to insert an element at an appropriate position in an array.

28. program to compute mean, variance, sd.

29. program to find out the frequency of odd numbers &even numbers in the input of a matrix.

30. program to sort all the rows of a matrix in ascending order and all columns in descending order.

31. program to convert lower case letters to upper case and vice versa.

32. program to find the sum of the rows and columns of a matrix

33. program to find the transpose of a matrix.

34. program to accept two strings and compare them. Finally, print whether both are equal, the first string is greater than the second, or the first string is less than the second string without using the string library.

35. program to accept N integer numbers and store them in an array AR. The odd elements in the AR are copied into the EAR. Display the contents of OAR and EAR.

36. program to find the sub-string in a given string.

37. program to accept a string and find the number of times the word ‘the’ appears in it.

38. program to find the length of a string using built-in functions, and check whether it is a palindrome.

39. program to accept two strings and concatenate them i.e. The second is appended to the end of the string.

40. program for comparing two matrices for equality.

41. program to illustrate how user authentication is made before allowing the user to access the secured resources. It asks for the username and then the password. The password that you enter will not be displayed, instead, that character is replaced by ‘\*’.

42. program to find the length of the string without using built-in functions.

43. program to read N integers (zero, +ve, and -ve) into an array A and to

Find the sum of negative numbers, and positive numbers, and find the average of all input numbers. Output with proper headings.

44. program to sort N numbers using bubble sort and print both the given and sorted array with suitable headings.

45. program to accept N numbers sorted in ascending order to search for a given number using binary search. Report success or failure in the form of a suitable message.

46. program read a sentence and counts the number of vowels and consonants present in the given sentence. output the results on two lines with suitable headings.

47. program to sort names in alphabetical order using structures.

48. program to illustrate the unions.

49. program to store the inventory information system.

50. program to find the sum and difference of two matrices.

51.Program to read a matrix A(MxN) and to find the following using functions:

The sum of the elements of each row, the sum of the elements of each column, and find the sum of all the elements of the matrix.

52 program to find the sum of all elements of an array using pointers.

53. Program to swap particular elements in an array using pointers.

54. program to find the sum of two 1-D array using dynamic memory allocation.

C-important programs

1. program to print N Fibonacci numbers.

2. c program to reverse a given number and check whether it is a palindrome or not. output the number with a suitable message.

3. c program to read two strings and concatenate them without using built-in functions. output the string along with suitable messages.

4. c program to read N names, store them in the form of an array and sort them in alphabetical order. output the given names and sorted names with a suitable heading.

5. c program swap the numbers without using extra variables.

6. c program to read n integers and store them in an array A, and so find the sum of all these elements using a pointer. output the given array and computed sum with the suitable heading.

7. write a c program to find the value of Sin(x) using the series Sin(x)=x-x3/3! + x5/5! + x7/7! …….up to N terms accuracy (without using user-defined functions. Also, print sin(x) using the library function).