Lab Assignment - 2



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- 1. WAP to check whether a number is palindrome or not
- WAP to find out the sum of digits of a number n.
- You are given an array of 0s and 1s in random order. WAP to segregate 0s on left side and 1s on right side of the array.
 - If input = [0, 1, 0, 1, 0, 0, 1, 1, 1, 0] then output = [0, 0, 0, 0, 0, 1, 1, 1, 1, 1]
- 4. WAP to compute the sine series using function $\sin(x)=x-x^3/3!+x^5/5!-x^7/7!+...$
- WAP to design a user defined function (say array_sum) to calculate the sum of all the integers stored in the 2-D array.
- WAP to sort the elements of an array in ascending order by using a suitable function for sort operation.
- 7. WAP to check whether a number can be expressed as a sum of two prime numbers. E.g. 32 can be expressed as sum of two prime numbers i.e. 1 and 31
- 8. WAP to calculate GCD/HCF of two numbers by using recursive function
- WAP with the a function rotate(ar[], d, n) that rotates arr of size n by d elements. If the array elements are 1, 2, 3, 4, 5 and rotating by 1 position would make the array as 2, 3, 4, 5, 1

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- WAP to find the LCM of two numbers a and b by using a suitable function (say LCM) for this.
- 11. WAP to find out the sum of n elements of an integer 1-D array by using recursion.
- WAP by designing a recursive function to calculate the sum of all even digits of any given integer.
- 13. WAP to find out "c_r factor by using a user defined function (say fact).
- 14. WAP to calculate xy by writing a function (say power).
- 15. Given an array, WAP that segregates even and odd numbers. The functions should put all even numbers first, and then odd numbers.
- 16. WAP to display prime numbers between two intervals. E.g. Prime numbers between 20 and 50 are: 23 29 31 37 41 43 47
- 17. WAP that receives a floating point value x and returns it as a value rounded to two nearest decimal places. E.g. the value 123.4567 will be rounded to 123.46
- 18. WAP to split the array at the given position and move the first part of the array to the end.