



ACADEMY OF TECHNOLOGY
Lab Assignment (Assignment 12)

Paper name: Data Structure and Algorithm

Code: PCC-CS391

Discipline: CSE

Semester: 3rd

Time: 2 Hours

Date: November 4, 2020

1. Write a program to find factorial of n .
 2. Write a program to print the numbers from 1 to 10 such a way that when number is odd add 1 and when number is even subtract 1.
 3. Write a program to find the n^{th} Fibonacci number using recursion.
 4. Given an array `arr[]` of n elements, write a recursive function to search a given element x in `arr[]`.
 5. Given a *sorted* array `arr[]` of n elements, write a function to search a given element x in `arr[]`.
 - (a) using iterative method.
 - (b) using recursive method.
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