Design & Analysis of Algorithms

Monsoon Semester III 2020-21

Lab - 5 Due Date: **7 October 2020**

Topics: Dynamic Programming

INTRODUCTION

In the lab, we would be solving problem using Dynamic Programming.

EXERCISE

1. Implement to find the nth element of Fibonacci number using

    a brute - force approach

    b using dynamic programming using memorisation, Additionally also compute the number of call computed for both the cases.

    c Using bottom up approach LeetCode Problem

2. Write a program to find the longest common sub-sequence using Dynamic Programming. LeetCode Problem