**Experiment No. : 5**

**Title:** Longest Common Subsequence using Dynamic

Programming

**Batch: B2 Roll No.: 1914078 Experiment No.: 5**

**Aim:**  Implement Longest Common Subsequence using Dynamic Programming.

**Algorithm:**

**Example of**  Longest Common Subsequence (LCS) **Step by Step Execution Derivation of Analysis:**

Time complexity.

**Program(s):**

**Output(o):**

**Questions:-**  Explain dynamic programming approach for LCS and write the various applications of LCS.

**Outcome:**

**Conclusion: (Based on the observations):**

**References:**

1. Richard E. Neapolitan, " Foundation of Algorithms ", 5th Edition 2016, Jones & Bartlett Students Edition
2. Harsh Bhasin , " Algorithms : Design & Analysis", 1st Edition 2013, Oxford Higher education, India
3. T.H. Coreman ,C.E. Leiserson,R.L. Rivest, and C. Stein, " Introduction to algorithms", 3rd Edition 2009, Prentice Hall India Publication