**Name Of the Experiment: Dynamic Programming.**

**Experiment No: 05**

**Course No: CSE- 244**

**Course Title:**

**Algorithm Design & Analysis (Sessional)**

***Date of performance: 08-10-2023***

***Date of Submission: 05-11-2023***

Remarks

**Identity Details**

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Level: 2 Term: 2 Section: B

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Department of Computer Science & Engineering

**CHITTAGONG UNIVERSITY OF ENGINEERING AND TECHNOLOGY**

**Program 1**: Calculation of Fibonacci series:

F(0)=0 , F(1)=1 , F(n)=F(n-1)+F(n-2).

**Output:**

**Program 2**: Calculation of nCr.

**Output:**

**Output:**

**Program 3**: Implementation of 0/1 knapsack problem. Given the weight and profit of some objects. Pick objects in a way that maximizes the profit and does not exceed a given weight limit.

Output: