**Name Of the Experiment: Divide and Conquer.**

**Experiment No: 03**

**Course No: CSE- 244**

**Course Title:**

**Algorithm Design & Analysis (Sessional)**

***Date of performance: 24-09-2023***

***Date of Submission: 01-10-2023***

Remarks

**Identity Details**

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Level: 2 Term: 2 Section: B

Group: B1

Department of Computer Science & Engineering

**CHITTAGONG UNIVERSITY OF ENGINEERING AND TECHNOLOGY**

**Program 1**: Given two integers x and n, efficiently calculate the value of x^n.

**Output:**

**Program 2**: Sort an array using merge sort algorithm.

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**Output:**

Output:

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**Program 3**: Given an array of integers, find maximum sum subarray among all

subarrays possible.

**Output:**