Rajshahi University of Engineering & Technology

Department of Computer Science & Engineering

Course no: CSE-2202

Date: 23-1-2021

**Task-1**: Generate a recursive algorithm for creating the series of Fibonacci numbers up to a given number of elements. The number of elements should be read from a file **fibonacci.txt**. Your task is to implement the code of your algorithm and then find out the total number of steps. Finally compare the number of steps (i.e., at least 10 comparisons) with an algorithm which do not use recursive method for generating the Fibonacci numbers (include graphs if required).

Your report should contain the followings:

1. Introduction/ Problem statements
2. Details description and algorithms
3. Implemented Code
4. Sample Input and Output (Include the graphs if required)
5. Discussion and conclusion