

Assignment 4

Ques 1: Calculate the n^{th} element of a Fibonacci sequence using:

- a. Iteration.
- b. Recursion.

Ques 2: Calculate the factorial of a number using:

- a. Iteration.
- b. Recursion.

Ques 3: Implement Tower of Hanoi using Recursion.

Ques 4: Write a program for calculating the length of a string using Recursion.

Hint: <https://www.geeksforgeeks.org/program-for-length-of-a-string-using-recursion/>

Ques 5: Write a program to print all possible strings of length k that can be formed from a set of n characters.

Hint: <https://www.geeksforgeeks.org/print-all-combinations-of-given-length/>

Ques 6: Write a program to check if a number is Palindrome or not, using Recursion.

Hint: <https://www.geeksforgeeks.org/check-if-a-number-is-palindrome/>