

Recursion Homework-2

Do the following question and submit on google classroom.

(Only CPP files)

(example) Q1_22_1234.cpp

1. Write a recursive function to calculate the sum of numbers from 1 to n.
2. Implement a recursive function that prints the numbers from n down to 1.
3. Implement a recursive function to print all even numbers from 2 to a given positive integer n.
4. Write a recursive function to compute the factorial of a non-negative integer.
5. Create a recursive function to calculate the result of raising a number x to a non-negative integer exponent n.
6. Write a recursive function to print all elements in an array.
7. Implement a simpler recursive function to compute the nth Fibonacci number.
8. Create a recursive function to check if a given string is a palindrome.
9. Implement a recursive function that converts a decimal number to its binary representation.
10. Write a recursive function to find the greatest common divisor (GCD) of two positive integers.
11. Implement a recursive function to print a pattern like a right-angled triangle using asterisks.
12. Create a recursive function to solve the Tower of Hanoi problem for n disks.