

Lab Assignment III

1. Write a C program that defines a function called `calcSum`, which takes two integer arguments and returns their sum.
 - a. No arguments and no return value
 - b. No arguments with return value
 - c. Arguments and no return value
 - d. Arguments with return value
2. Create a C program that defines a function called `calcFactorial`, which takes an integer argument and returns its factorial.
3. Write a program to calculate factorial of any given number using recursive function.
4. Write a program to calculate the sum of N natural numbers using recursive function.
5. Write a recursive program to calculate x^y (x to the power y).
6. Write a program
 - a. passing single dimensional array as an argument to a function.
 - b. passing multi-dimensional array as an argument to a function.
7. Write a program to showcase the proper implementation of
 - a. Call by value (passing by value)
 - b. Call by reference (passing by reference)
8. Write a program passing string as an argument to a function.