Introduction to Computer Science Lab II

CIEE102, Spring 2020

Lab 1

- 1. Follow instructions below to write a program.
 - a. Define the variable lptr to be a pointer to an object of type long
 - b. Define two long integer value1 and value2 where value1 is initialized to 200000.
 - c. Assign the address of variable value1 to pointer variable lptr.
 - d. Print the value of object pointed to by lptr.
 - e. Assign the value of the object pointed to by lptr to variable value2.
 - f. Print the value of value2.
 - g. Print the address of value1.
 - h. Print the address stored in lptr.
- 2. For each of the following, write a C statement that performs the indicated task. Assume that floating-point variables number1 and number2 are defined and that number1 is initiated to 7.3.
 - a. Define the variable fptr to be a pointer to an object of type float.
 - b. Assign the address of variable number1 to pointer variable fptr.
 - c. Print the value of the object pointed to by fptr
 - d. Assign the value of the object pointed to by fptr to variable number2
 - e. Print the value of number2
 - f. Print the address of number1
 - g. Print the address stored in fptr
- 3. Write a function which accepts two integer pointers as parameters and add those two integers pointed to by these two pointers. Also write a main program to test your function.
- 4. Write a function which accepts two integer pointers as parameters and swap those two integers pointed to by these two pointers. Also write a main program to test your function.
- 5. Write a function which accepts one integer pointer as parameter and calculate the factorial of the integer pointed to by this pointer. Also write a main program to test your function.