LAB 03

Lists, and, Functions

1. Write a function that takes a list as a parameter and displays its integer contents in a single line.
2. Write a program that takes a list and prints sub/nested lists only.
3. Write a program that copies (elementwise) one list in another list using comprehension statement.
4. Create a program that takes transpose of a matrix (nested list) using for loop and comprehension statements.
5. Write a program will ask the user to enter the width and length of a rectangle and then display the rectangle's area. The program calls the following functions:
    i.   getLength – This function should ask the user to enter the rectangle's length and then return that value as a double.
    ii. getWidth – This function should ask the user to enter the rectangle's width and then return that value as a double.
    iii. getArea – This function should accept the rectangle's length and width as arguments and return the rectangle's area. The area is calculated by multiplying the length by the width.
    iv. displayData – This function should accept the rectangle's length, width, and area as arguments and display them in an appropriate message on the screen.