

Programming Fundamentals Lab

Lab 08

Marks 100

Instructions

Work on this lab individually. You can use your books, notes, handouts etc. but you are not allowed to borrow anything from your peer student. Each task carry equal marks (i.e., 20).

Submission

No submission is required.

What you have to do

Program the following tasks in your Microsoft C++ compiler and then compile and execute them. The name of your files will be according to the task given in this lab.

Task 1

Assuming the ocean's level is currently **rising** at about **1.5 millimeters per year**; write a program that displays a table showing the **number of millimeters** that the ocean will have **risen each year** for the **next N years** where **N** is taken from the user.

Sample Execution

Number of years? <u>3</u>	
Year	Level
1	1.5
2	3.0
3	4.5

Task 2

Write a program that lets the user enter a **series of integers**. The user should enter **-99** to signal the **end of the series**. After all the numbers have been entered, the program should display the **largest** number entered by the user.

Sample Execution

Enter a value: <u>5</u>	Enter a value: <u>-5</u>
Enter a value: <u>6</u>	Enter a value: <u>-8</u>
Enter a value: <u>1</u>	Enter a value: <u>-1</u>
Enter a value: <u>-99</u>	Enter a value: <u>-99</u>
The largest is: <u>6</u>	The largest is: <u>-1</u>

Task 3

Write a program that inputs **sLimit** (starting limit) and **eLimit** (ending limit) from user, and **display** the **sum** of only those numbers exist between range which are **divisible** by **2** and **3** and **5**, with both limits included

Sample Execution

Enter starting limit: <u>3</u>	Enter starting limit: <u>28</u>
Enter ending limit: <u>65</u>	Enter ending limit: <u>95</u>
The sum is: <u>90</u>	The sum is: <u>180</u>

Task 4

Write a program that **prompts** the user to enter the **length** of the number he/she wants to enter followed by the **number**. The program then **outputs** the **individual digits** of the number and the **sum** of the digits.

Sample Execution

Length of the number: <u>3</u>	Length of the number: <u>5</u>
Enter the number: <u>345</u>	Enter the number: <u>40000</u>
Individual digits are <u>3</u> <u>4</u> <u>5</u>	Individual digits are <u>4</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u>
The sum is: <u>12</u>	The sum is: <u>4</u>

Task 5

Write a program to create the copy of an existing file; report error if the file does not exist on the specified location.

😊😊😊 **BEST OF LUCK** 😊😊😊