Programming Fundamentals Lab

Lab 07 **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.

Submission

Put all the files of your solution in a zipped folder labeled with your roll number.
Upload the zipper file solution(s) folder at Google classroom (https://classroom.google.com) by Thursday, April 09, 2020 before 05:00 PM. No submission will be accepted after this deadline.

Please use your email account at PUCIT domain and the following code to join the class:

Code: 2oosi22

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. Solve all these questions using **for loop**.

Task 1 [20]

Running on a particular treadmill you **burn 3.9 calories per minute;** write a program that displays a table showing the **number of calories** will have **burned each minute** for the **next N minutes** where **N** is taken from the user.

Sample Execution

Number of minutes? **3**

Minute	Calories Burnt
1	3.9
2	7.8
3	11.7

Task 2 [20]

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 **smallest** number entered by the user.

Sample Execution

Enter a value: **5** Enter a value: **6** Enter a value: **1** Enter a value: **-99** The largest is: **1**	Enter a value: **-5** Enter a value: **-8** Enter a value: **-1** Enter a value: **-99** The largest is: **-8**

Task 3 [20]

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

Sample Execution

Enter starting limit: **2** Enter ending limit: **15** The average is: **8.0**	Enter starting limit: **21** Enter ending limit: **55** The average is: **37.58**

Task 4 [20]

Write a program that inputs **two positive integers a** and **b** from the user and **determine** and **display** the **remainder** of **a divided by b (a/b)**. You are not allowed to use the **modulus operator (%)**.

Task 5 [20]

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 **number** with the **digits reversed**.

Sample Execution

Length of the number: **3** Enter the number: **345** Individual digits are **543**	Length of the number: **5** Enter ending limit: **40000** Individual digits are **00004**

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