**The Great Computer Challenge, 2023**

***Object-Oriented Business Programming,***

***Level 4***

# **Background**

**Roman Numeral Calculator**

The Romans were noted for many significant advances in math, the sciences and fine arts. The numbering system they developed used Roman Numerals to common numeric values. The values of the Roman digits are as follows:

I 1

V 5

X 10

L 50

C 100

D 500

M 1,000

# **Guidelines and Requirements**

Demonstrate how to write a program and create a graphical user interface that is functional and interactive**.**

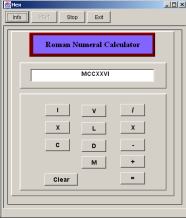
# **Challenge:**

Design an applet that will allow the user to perform calculations on Roman Numerals. The arithmetic operators that your program should incorporate include: +, -, \*, and /.

EXAMPLE:

1. The number **MCCXXVI** is entered.

**JAVA (50 points)**

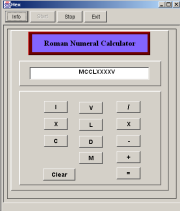


b. The “plus” sign is pressed.

c. The second number **LXIX** is entered.

d. The “equal” sign is pressed.

e. The following is the output generated



# **Judging Criteria**

The code is executable, and it runs and creates an attractive output with all the requirements.

**JAVA (50 points)**

***Have fun and thanks for participating in the   
Great Computer Challenge, 2023!***