

Assignment #9

Goals:

- This lab gives students more experience in
 - Top-down design.
 - Procedural abstraction using methods.
 - Good style programming.

Requirement

Write a structured program that can accept two positive integer numbers up to 40 digits and perform the followings:

1. Add the two numbers and display the result.
2. The result number should be separated by commas.

For example

If inputs are:

Number1: 236598745632

Number2: 2453254365546764765

The output should be:

236,598,745,632 +

2,453,254,365,546,764,765

2,453,254,602,145,510,397

Notes:

- You must read the two input numbers as string objects, then verify if the input is correct (i.e. all digit characters).
- You may assume that your program only works for positive integer numbers.
- You **cannot** use any of **BigDecimal** / **BigInteger** / **double** / **long** / **int** types for your calculations.

Marking Scheme

[5 marks] Presentation/Style: Organization, readability, descriptive identifier, indentation, bracket placement

[75 marks] Correctness: Program works without bugs. Appropriate use of methods.

[20 marks] Internal Documentation and External document (Provide pseudo code for the method which adds the two String umbers)