

# Assignment #10

## Goals:

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

## Requirement

Write a structured program that can accept two 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

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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

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

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

[10 marks] Internal Documentation