# **LAB211 Assignment**

Type: Short Assignment

Code: J1.S.P0074

LOC: 100 Slot(s): 2

#### Title

Write a calculator program (from DCPS's project)

# **Background**

NA

## **Program Specifications**

Write a calculator program have functions: addition, subtraction, multiplication functions for matrix.

#### **Function details:**

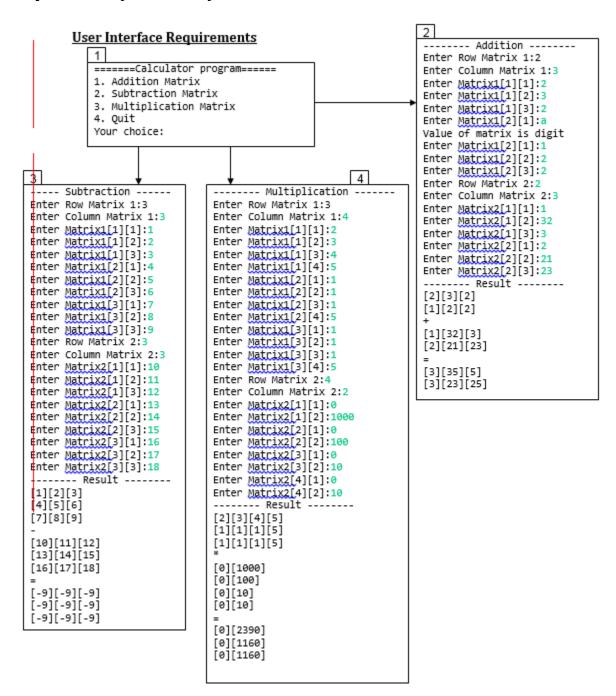
**Function 1:** Display a menu and ask users to select an option.

- Users run the program. The program prompts users to select an option.
- Users select an option, perform **Function 2**.

**Function 2:** Perform function based on the selected option.

- o Prompt users input number of row, number of column of 2 matrixes.
- Prompt users input values of matrixes must be the number. If users input values that are not a number, display notification on the screen: "Values of matrix must be the number".
- Option 1: Addition matrixes
  - Display result.
- Option 2: Subtraction matrixes
  - Display result.
- Option 3: Multiplication matrixes
  - Display result.
- Option 4: Exit program.

# Expectation of User interface:



# **Guidelines**

#### Student must implement methods

additionMatrix subtractionMatrix multiplicationMatrix

in startup code.

#### **Function 1:** Addition matrixes

Implement function: public int[][] additionMatrix (int[][] matrix1, int[][]matrix2)

- Input:
  - matrix1: The first matrix.
  - > matrix2: The second matrix.
- Return values: The result.

#### **Function 2:** Subtraction matrixes

- o Implement function: public int[][] <a href="mailto:subtractio">subtractio</a>nMatrix (int[][] matrix1, int[][]matrix2)
  - Input:
    - > matrix1: The first matrix.
    - matrix2: The second matrix.
  - Return values: The result.

### **Function 3:** Multiplication Matrixes

- Implement function: public int[][] multiplicationMatrix(int[][] matrix1, int[][]matrix2)
  - Input:
    - > matrix1: The first matrix.
    - matrix2: The second matrix.
  - Return values: The result.