

LAB211 Assignment

Type:
Code:
LOC:
Slot(s):

Short Assignment
J1.S.P0074
100
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.

- 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

- Implement function: `public int[][] subtractionMatrix (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.