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| **LAB101 Assignment** | **Type:** | **Short Assignment** |
| **Code:** | **C.S.P0035** |
| **LOC:** | **50** |
| **Slot(s):** | **1** |

**Title**

Sum of 2 matrices.

**Background**

N/A

**Program Specifications**

Implement a program that allows users to input 2 matrices with inputted sizes.

Then, calculate and output sum of the 2 matrices.

***Function details:***

1. Function 1: Display a screen to prompt users to input the sizes for the 2 matrices, separated by a white space character.

* After users input the 2 number for the sizes, perform Function 2.

1. Function 2: Ask users to input the 2 matrices’ elements. Inputted elements are separated by a white space; and by a new line for each row.

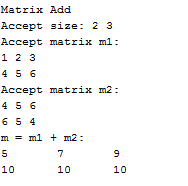
* After users input the 2 matrices’ elements, perform Function 3.

1. Function 3: Calculate sum of the 2 matrices by calculating sum of elements that have same positions in the 2 matrices.

* The program returns a new matrix which is a result from the sum of the previous inputted matrices.
* Perform Function 4.

1. Function 4: Output the new matrix to the screen.

***Expectation of User interface:***



**Guidelines**

Use malloc() function for dynamically allocating memory for pointer arrays.

*\* Students should use the provided dump\_line() function to clear the buffer after invoking the scanf() function (call: dump\_line(stdin)).*