

Lab 1 – PRO192

Type:
Code:
LOC:
Slot(s):

Short Assignment
Lab1-PRO192
80
1

Exercise 1:

Write a program that allows the user to enter **the number of rows and columns of a matrix** from keyboard. Row and column values are **positive integers**.

Then the program prints the message:

Number of rows:

Number of columns:

Expectation user interface:

```
Enter number of row: 4
Enter number of column: 5
Number of row: 4
Number of column: 5
```

Exercise 2:

Write a program that asks the user to enter elements of the matrix with the number of rows and columns entered in exercise 1, and then prints the matrix to the screen.

Expectation user interface:

```
Enter number of row: 3
Enter number of column: 3
Number of row: 3
Number of column: 3
Enter matrix [1][1]: 1
Enter matrix [1][2]: 2
Enter matrix [1][3]: 3
Enter matrix [2][1]: 4
Enter matrix [2][2]: 5
Enter matrix [2][3]: 6
Enter matrix [3][1]: 7
Enter matrix [3][2]: 8
Enter matrix [3][3]: 9
The matrix:
 1  2  3
 4  5  6
 7  8  9
```

Exercise 3:

Write a program for the user to **input a string** from the keyboard. Then, the program **display the words** in the string in the screen. The words are separated by a space.

Expectation user interface:

```
Enter a string:
have a nice day
List of words:
have, a, nice, day
```

Exercise 4:

Develop a program that asks the user to enter the number of elements of an array from the keyboard (n is an integer). Then, the program generates randomly the array with n elements. Finally, the program displays this array on the screen.

Expectation user interface:

```
Enter the number of array:
10
Array: [43, 27, 58, 13, 75, 88, 37, 99, 46, 30]
```