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SDEV 300

Lab 4 Matrix application

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test case | Input | Expected output | Actual output | Pass? |
| 1 | n | \*\*\*\*\*\*\*\*\*\*\* Thanks for playing Python Numpy \*\*\*\*\*\*\*\*\*\*\*\*\*\*\* | \*\*\*\*\*\*\*\*\*\*\* Thanks for playing Python Numpy \*\*\*\*\*\*\*\*\*\*\*\*\*\*\* | yes |
| 2 | 2345-344-3443 | Your phone number is not in correct format. Please try again. | Your phone number is not in correct format. Please try again. | yes |
| 3 | 234323-24323 | Your zipcode is not in correct format. Please try again. | Your zipcode is not in correct format. Please try again. | yes |
| 4 | 1 2 3 3 2 1 4 3 2 | [[1 2 3]  [3 2 1]  [4 3 2]] | [[1 2 3]  [3 2 1]  [4 3 2]] | yes |
| 5 | a. | You selected addition. The results are:  [[3 5 8]  [5 6 7]  [8 6 5]]  The transpose:  [[3 5 8]  [5 6 6]  [8 7 5]]  The row and column mean values of the results are:  Row:  [[5.33]  [6. ]  [6.33]]  Column:  [[5.33 5.67 6.67]] | You selected addition. The results are:  [[3 5 8]  [5 6 7]  [8 6 5]]  The transpose:  [[3 5 8]  [5 6 6]  [8 7 5]]  The row and column mean values of the results are:  Row:  [[5.33]  [6. ]  [6.33]]  Column:  [[5.33 5.67 6.67]] | yes |
| 6 | b | You selected subtracted. The results are:  [[-7 -1 4]  [ 0 0 0]  [-1 3 4]]  The transpose:  [[-7 0 -1]  [-1 0 3]  [ 4 0 4]]  The row and column mean values of the results are:  Row:  [[-1.33]  [ 0. ]  [ 2. ]]  Column:  [[-2.67 0.67 2.67]] | You selected subtracted. The results are:  [[-7 -1 4]  [ 0 0 0]  [-1 3 4]]  The transpose:  [[-7 0 -1]  [-1 0 3]  [ 4 0 4]]  The row and column mean values of the results are:  Row:  [[-1.33]  [ 0. ]  [ 2. ]]  Column:  [[-2.67 0.67 2.67]] | yes |
| 7 | d | You selected multiply elements. The results are:  [[12 0 27]  [12 8 9]  [30 56 15]]  The transpose:  [[12 12 30]  [ 0 8 56]  [27 9 15]]  The row and column mean values of the results are:  Row:  [[13. ]  [ 9.67]  [33.67]]  Column:  [[18. 21.33 17. ]] | You selected multiply elements. The results are:  [[12 0 27]  [12 8 9]  [30 56 15]]  The transpose:  [[12 12 30]  [ 0 8 56]  [27 9 15]]  The row and column mean values of the results are:  Row:  [[13. ]  [ 9.67]  [33.67]]  Column:  [[18. 21.33 17. ]] | yes |

Test case 1

A picture containing text

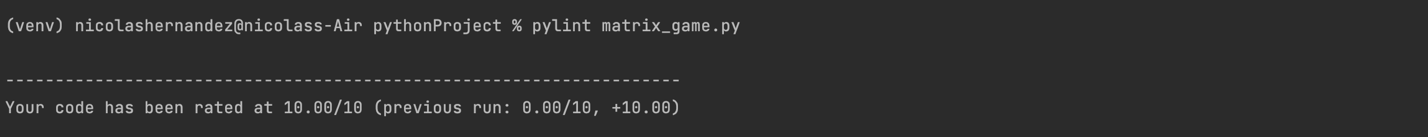
Description automatically generatedText

Description automatically generatedText

Description automatically generatedA picture containing text

Description automatically generatedText

Description automatically generatedText

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Description automatically generated

Test case 4

Test case 3

Test case 2

Test case 5

Test case 6

Test case 7

Pylint score: 10/10