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9 February 2020

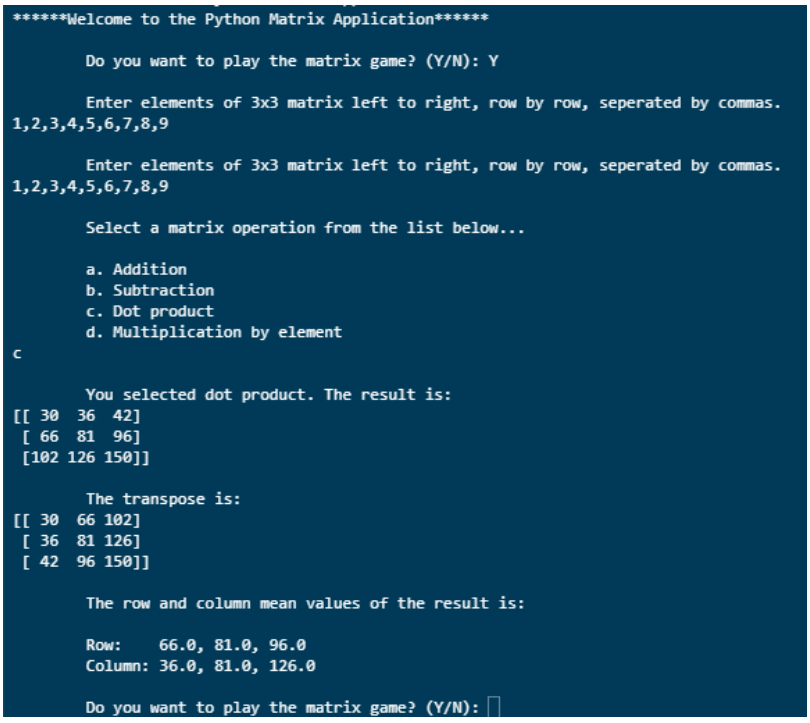
SDEV 300, Fair

Lab 4 Results Document

MatrixOps

Test Case	Input	Expected Output	Actual Output	Pass?
1a	Valid input*	Valid output	Valid output	Yes
1b	Input containing non-integers, invalid chars, or whitespace.	Require valid user input.	Require valid user input.	Yes
1c	Input containing less or more than 9 integers	Require valid user input.	Require valid user input.	Yes

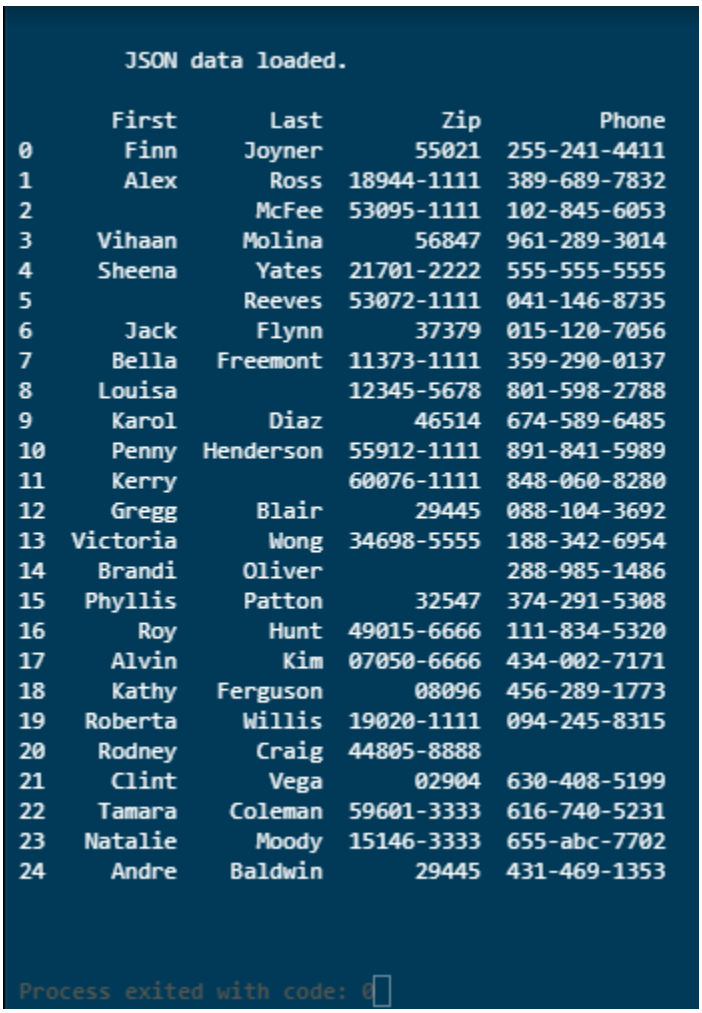
* Valid input consists of exactly 9 positive integers separated by commas without whitespace.



```
******Welcome to the Python Matrix Application******

        Do you want to play the matrix game? (Y/N): Y

        Enter elements of 3x3 matrix left to right, row by row, seperated by commas.
.1,2,3,4,5,6,7,8,9
Invalid input. Please try again.

        Enter elements of 3x3 matrix left to right, row by row, seperated by commas.
1,2,3,4,5,6,7,8,9

        Enter elements of 3x3 matrix left to right, row by row, seperated by commas.
1,2,3,4,5,6,7,8,9

        Select a matrix operation from the list below...

        a. Addition
        b. Subtraction
        c. Dot product
        d. Multiplication by element
a

        You selected addition. The result is:
[[ 2  4  6]
 [ 8 10 12]
 [14 16 18]]

        The transpose is:
[[ 2  8 14]
 [ 4 10 16]
 [ 6 12 18]]

        The row and column mean values of the result is:

        Row:    8.0, 10.0, 12.0
        Column: 4.0, 10.0, 16.0

        Do you want to play the matrix game? (Y/N):
```

```
******Welcome to the Python Matrix Application******

        Do you want to play the matrix game? (Y/N): Y

        Enter elements of 3x3 matrix left to right, row by row, seperated by commas.
1,2,3,4,5,6,7,8,9,0
Invalid input. Please try again.

        Enter elements of 3x3 matrix left to right, row by row, seperated by commas.
1,2,3,4,5,6,7,8,9

        Enter elements of 3x3 matrix left to right, row by row, seperated by commas.
1,2,3,4,5,6,7,8,9

        Select a matrix operation from the list below...

        a. Addition
        b. Subtraction
        c. Dot product
        d. Multiplication by element
b

        You selected subtraction. The result is:
[[0 0 0]
 [0 0 0]
 [0 0 0]]

        The transpose is:
[[0 0 0]
 [0 0 0]
 [0 0 0]]

        The row and column mean values of the result is:

        Row:    0.0, 0.0, 0.0
        Column: 0.0, 0.0, 0.0

        Do you want to play the matrix game? (Y/N):
```

RecordOps



```
        JSON data loaded.

       First       Last         Zip         Phone
0       Finn     Joyner       55021  255-241-4411
1       Alex       Ross  18944-1111  389-689-7832
2                 McFee  53095-1111  102-845-6053
3     Vihaan     Molina       56847  961-289-3014
4     Sheena      Yates  21701-2222  555-555-5555
5                Reeves  53072-1111  041-146-8735
6       Jack      Flynn       37379  015-120-7056
7      Bella   Freemont  11373-1111  359-290-0137
8     Louisa             12345-5678  801-598-2788
9      Karol       Diaz       46514  674-589-6485
10     Penny  Henderson  55912-1111  891-841-5989
11     Kerry             60076-1111  848-060-8280
12     Gregg      Blair       29445  088-104-3692
13  Victoria       Wong  34698-5555  188-342-6954
14    Brandi     Oliver              288-985-1486
15   Phyllis     Patton       32547  374-291-5308
16       Roy       Hunt  49015-6666  111-834-5320
17     Alvin        Kim  07050-6666  434-002-7171
18     Kathy   Ferguson       08096  456-289-1773
19   Roberta     Willis  19020-1111  094-245-8315
20    Rodney      Craig  44805-8888
21     Clint       Vega       02904  630-408-5199
22    Tamara    Coleman  59601-3333  616-740-5231
23   Natalie      Moody  15146-3333  655-abc-7702
24     Andre    Baldwin       29445  431-469-1353


Process exited with code: 0
```