Test Case	Input	Expected Output	Actual Output	Pass?
1: run through all options	yes, 456-456- 4564, 45645- 6456, 1 1 1, 2 2 2, 3 3 3, 4 4 4, 5 5 5, 6 6 6, a, yes, 444- 5555-6666, 44444- 5555, 7 7 7, 8 8 8, 9 9 9, 0 0 0, 1 1 1, 2 2 2, b, yes, 777- 777-7777, 88888- 9999, 4 5 4, 6 7 6, 8 9 8, 1 2 1, 3 4 3, 5 6 5, c, yes, 333- 333-3333, 45454- 6666, 5 5 5, 6 6 6, 7 7 7, 9 9 9, 8 8 8, 7 7 7, d, no	Your first 3 x 3 matrix is: 1 1 1 2 2 2 3 3 3 Your second 3 x 3 matrix is: 4 4 4 4 5 5 5 5 6 6 6 You selected addition. The results are: 5 5 5 7 7 7 9 9 9 The Transpose is: 5 7 9 5 7 9 The row and column mean values of the results are: Row: 5.00 7.00 9.00 Column: 7.00 7.00 7.00 Your first 3 x 3 matrix is: 7 7 7 8 8 8 9 9 9 Your second 3 x 3 matrix is: 0 0 0 1 1 1 2 2 2 You selected subtraction. The results are: 7 7 7 7 7 7 The Transpose is: 7 7 7 The Transpose is: 7 7 7 The row and column mean values of the results are: Row: 7.00 7.00 7.00 Column: 7.00 7.00 7.00 Column: 7.00 7.00 7.00 Column: 7.00 7.00 7.00 Column: 7.00 7.00 7.00	same	yes

1 1	Your first 3 x 3 matrix is:
	454
	676
	8 9 8
	Your second 3 x 3 matrix is:
	121
	3 4 3
	5 6 5
	You selected matrix multiplication. The results are:
	4 10 4
	18 28 18
	40 54 40
	The Transpose is:
	4 18 40
	10 28 54
	4 18 40
	The row and column mean values of the results are:
	Row: 6.00 21.33 44.67
	Column: 20.67 30.67 20.67
1: run	Your first 3 x 3 matrix is:
through all	5 5 5
options	6 6 6
	777
	Your second 3 x 3 matrix is:
	9 9 9
	888
	777
	You selected element by element multiplication. The
	results are:
	45 45 45
	48 48 48
	49 49 49
	The Transpose is:
	45 48 49
	45 48 49
	45 48 49
	The row and column mean values of the results are:
	Row: 45.00 48.00 49.00
	Column: 47.33 47.33
	Thank you for visiting the Python Matrix Application.
	Good day.
	Good day.

2: invalid input	p8te, 444-555- 6666, 45dsa-65fs, 44444-5555, 1 2 3	Invalid entry. Please reenter (X X X). Invalid entry. Please reenter. Invalid entry. Please reenter. Enter the first 3 x 3 matrix:	same	yes