|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test # | Input | Expected | Actual | Pass / Fail |
| 1 | Y,555-555-5555,21022-3213,1,2,4,4,2,1,3,8,9,  3,2,1,7,2,5,5,2,1,1 | Display of matrix one and two after entering data, respectively. Then after operation the addition of the matrices, transpose and mean values. | Refer to Screenshot test case#1 | PASS |
| 2 | N | Good bye message | Thank you for using this program… Come back soon! | PASS |
| 3 | Y,5555555555,555-555-5555 | Error message to try again for phone number. | Invalid format Try again: | PASS |
| 4 | Y,5555555555,555-555-5555,123451234 | Zip code error message to try again | Invalid format Try again: | PASS |
| 5 | Y,555-555-5555,12345-1234, 123,132,222,321,222,111,2 | Display of matrix one and two after entering data, respectively. Then after operation, the subtraction of the matrices, transpose and mean values. | Refer to screenshot test case#5 | PASS |
| 6 | Starting at reshowing of menu - 3 | Display of matrix one and two after entering data, respectively. Then after operation, the multiplication of the matrices, transpose and mean values. | Refer to screenshot test case#6 | PASS |
| 7 | Starting at reshowing of menu - 4 | Display of matrix one and two after entering data, respectively. Then after the operation, the element-by-element multiplication of the matrices, transpose and mean values. | Refer to screenshot test case#7 | PASS |
| 8 | Starting at reshowing of menu – 5 | Exit the program with message. | Thank you for using this program... Come back soon! | PASS |

Pylint Results:  
Graphical user interface, text

Description automatically generated

Test Case #1a:  
Text

Description automatically generated  
Test Case #1b:  
A screenshot of a computer

Description automatically generated with medium confidence

Test Case #2:  
Text

Description automatically generated

Test Case #3:  
Text

Description automatically generated

Test Case #4:  
Text

Description automatically generated

Test Case #5a:  
Text

Description automatically generated

Test Case #5b:  
Graphical user interface, application

Description automatically generated

Test Case #6:  
Text

Description automatically generated

Test Case #7:  
A screenshot of a computer

Description automatically generated with medium confidence

Test Case #8:  
Text

Description automatically generated