

Scilab 6.1.0 Console

File Edit Control Applications ?



Scilab 6.1.0 Console

```
--> A = ones(2, 2)
A =

    1.    1.
    1.    1.

--> B = [2 3; 4 5]
B =

    2.    3.
    4.    5.

--> C = addition(2, 2, A, B)

"First matrix is"

    1.    1.
    1.    1.

"Second matrix is"

    2.    3.
    4.    5.

"Sum of matrices is"
C =

    3.    4.
    5.    6.

--> |
```

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Scilab 6.1.0 Console

```
--> exec('C:\Users\DELL\Desktop\MatrixAddition.sce', -1)
Enter no. of rows 3

Enter no. of columns 2

"Enter elements of first matrix row wise "
--> 1
--> 2
--> 3
--> 4
--> 5
--> 6

"Enter elements of second matrix row wise "
--> 7
--> 8
--> 9
--> 10
--> 11
--> 12

"First Matrix is "

    1.    2.
    3.    4.
    5.    6.

"Second Matrix is "

    7.    8.
    9.   10.
   11.   12.

"Sum of the matrices is "

    8.   10.
   12.   14.
   16.   18.
```

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Scilab 6.1.0 Console

```
--> exec('C:\Users\DELL\Desktop\addition.sce', -1)
--> C = addition(2, 2, [1 2; 3 4], [5 6; 7 8])

"First matrix is"

    1.    2.
    3.    4.

"Second matrix is"

    5.    6.
    7.    8.

"Sum of matrices is"
C =

    6.    8.
   10.   12.
```

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Scilab 6.1.0 Console

```
--> exec('C:\Users\DELL\Desktop\MatrixTranspose.sce', -1)
```

Enter no. of rows of matrix 2

Enter no. of columns of matrix 3

"Enter elements of matrix row wise "

```
--> 1
```

```
--> 2
```

```
--> 3
```

```
--> 4
```

```
--> 5
```

```
--> 6
```

"The Matrix is "

```
1.  2.  3.
4.  5.  6.
```

"The Transposed matrix is "

```
1.  4.  0.
2.  5.  0.
3.  6.  0.
```

```
--> |
```

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```
--> exec('C:\Users\DELL\Desktop\transpose.sce', -1)
```

```
--> B = transpose(2, 2, [1 2; 5 6])
```

"The marix is "

```
1.  2.
5.  6.
```

"Transposed matrix is "

B =

```
1.  5.
2.  6.
```

```
--> A = [1 2 3; 4 5 6]
```

A =

```
1.  2.  3.
4.  5.  6.
```

```
--> B = transpose(2, 3, A)
```

"The marix is "

```
1.  2.  3.
4.  5.  6.
```

"Transposed matrix is "

B =

```
1.  4.
2.  5.
3.  6.
```

```
--> |
```

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Scilab 6.1.0 Console

```
--> exec('C:\Users\DELL\Desktop\multiplication.sce', -1)
```

```
--> C = multiplication(2, 3, 3, 2, [1 5 4; -1 5 9], [2 5; 1 2; 7 8])
```

"Matrices are comfortable for multiplication"

"First Matrix is "

```
1.  5.  4.
-1. 5.  9.
```

"Second Matrix is "

```
2.  5.
1.  2.
7.  8.
```

"Product of the matrices is "

C =

```
35.  47.
66.  77.
```

```
--> C = multiplication(2, 3, 2, 2, [1 5 4; -1 5 9], [2 5; 1 2])
```

"Matrices are not comfortable for multiplication"

```
--> |
```

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Scilab 6.1.0 Console

```
--> exec('C:\Users\DELL\Desktop\MatrixMultiplication.sce', -1)
```

Enter no. of rows columns of first matrix 2

Enter no. of columns of first matrix 2

Enter no. of rows of second matrix 2

Enter no. of columns of second matrix 2

"Matrices are comfortable for multiplication"

"Enter elements of first matrix row wise "

```
--> 4
```

```
--> 5
```

```
--> 2
```

```
--> 2
```

"Enter elements of second matrix row wise "

```
--> 1
```

```
--> 6
```

```
--> 5
```

```
--> 4
```

"First Matrix is "

```
4.  5.
2.  2.
```

"Second Matrix is "

```
1.  6.
5.  4.
```

"Product of the matrices is "

```
20.  20.
10.  8.
```

```
--> |
```

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Scilab 6.1.0 Console

```
--> exec('C:\Users\DELL\Desktop\MatrixMultiplication.sce', -1)
```

```
Enter no. of rows columns of first matrix 2
```

```
Enter no. of columns of first matrix 2
```

```
Enter no. of rows of second matrix 3
```

```
Enter no. of columns of second matrix 3
```

```
    "Matrices are not comfortable for multiplication"
```

```
--> |
```