

```

Enter the no. of rows of first matrix A = 2
Enter the no. of columns of first matrix A = 3
Enter the no. of rows of second matrix B = 3
Enter the no. of columns of second matrix B = 2

```

Matrices are comfortable for multiplication.

```

Enter the elements of first matrix A, rowwise :

```

```

1
2
3
4
5
6

```

```

Enter the elements of second matrix B, rowwise :

```

```

1
2
3
4
5
6

```

The first matrix is A =

```

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

```

The second matrix is B =

```

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

```

The product of two matrices is C =

```

22.  28.
49.  64.

```

```
-->|
```

Scilab 5.5.2 Console

File Edit Control Applications ?

Scilab 5.5.2 Console

```

Enter number of rows in the Matrix :3

```

```

Enter number of columns in the Matrix :3

```

Enter the Matrix

```

2
4
6
5
7
8
9
3
1

```

Entered matrix is

```

2.  4.  6.
5.  7.  8.
9.  3.  1.

```

Transposed matrix is

```

2.  5.  9.
4.  7.  3.
6.  8.  1.

```

```
-->
```

```
-->matinv([1 0 4; 2 -2 1; -1 1 -1])
```

The given matrix A is =

```

1.  0.  4.
2. -2.  1.
-1.  1. -1.

```

The inverse of the given matrix is =

ans =

```

1.  4.  8.
1.  3.  7.
0. -1. -2.

```

```
-->|
```

```

Enter the no. of rows of first matrix A = 2
Enter the no. of columns of first matrix A = 3
Enter the no. of rows of second matrix B = 2
Enter the no. of columns of second matrix B = 3

```

Matrices are comfortable for addition.

```

Enter the elements of first matrix A, rowwise :

```

```

1
2
3
4
5
6

```

```

Enter the elements of second matrix B, rowwise :

```

```

1
2
3
4
5
6

```

The first matrix is A =

```

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

```

The second matrix is B =

```

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

```

The sum of two matrices is C =

```

2.  4.  6.
8.  10. 12.

```

```
-->
```

Enter the no. of pairs of values (x, f) to find the mean = 4
Enter the no. of moments to be found about mean = 4

Enter the values of x :

1
2
3
4

Enter the corresponding frequencies :

4
3
2
1

Average = 2.000000

Moment about mean M(1) = 0.000000

Moment about mean M(2) = 1.000000

Moment about mean M(3) = 0.600000

Moment about mean M(4) = 2.200000

Standard deviation = 1.000000

-->eigen([1, 3; -2, 6])

The characteristic equation of the matrix A is :

$e^2 - 7.000000 e + 12.000000 = 0$

Eigen values of the matrix are :

3.

4.

Eigen vectors of the matrix are :

3.

2.

3.

3.

-->|