

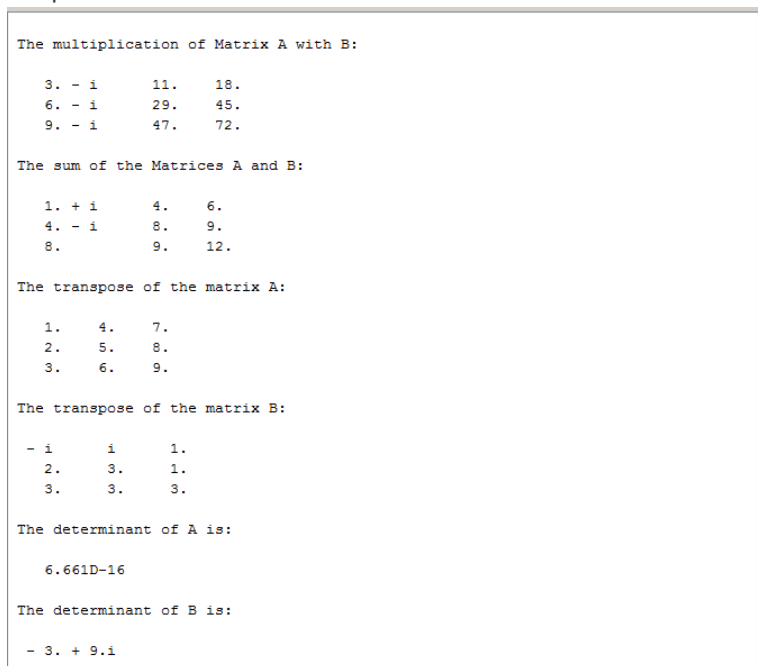
Scilab is like a heaven for Linear Algebra related problems, as it recognizes matrices and their operations.

Defining a matrix is easy and simple. There are a lot of in-built functions to perform various tasks like transposing a matrix, multiplying or adding matrices and more.

The following are some of the examples of various Matrix Operations in Scilab.

```
//Matrix Operations
clc;
A=[1,2,3;4,5,6;7,8,9];
B=[%i,2,3;-%i,3,3;1,1,3];
disp(A*B,"The multiplication of Matrix A with B:");
disp(A+B,"The sum of the Matrices A and B:");
disp(A',"The transpose of the matrix A:");
disp(B',"The transpose of the matrix B:");
disp(det(A),"The determinant of A is:");
disp(det(B),"The determinant of B is:");
```

Output:



```

The multiplication of Matrix A with B:

 3. - i    11.    18.
 6. - i    29.    45.
 9. - i    47.    72.

The sum of the Matrices A and B:

 1. + i    4.    6.
 4. - i    8.    9.
 8.         9.   12.

The transpose of the matrix A:

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

The transpose of the matrix B:

 - i    i    1.
 2.    3.    1.
 3.    3.    3.

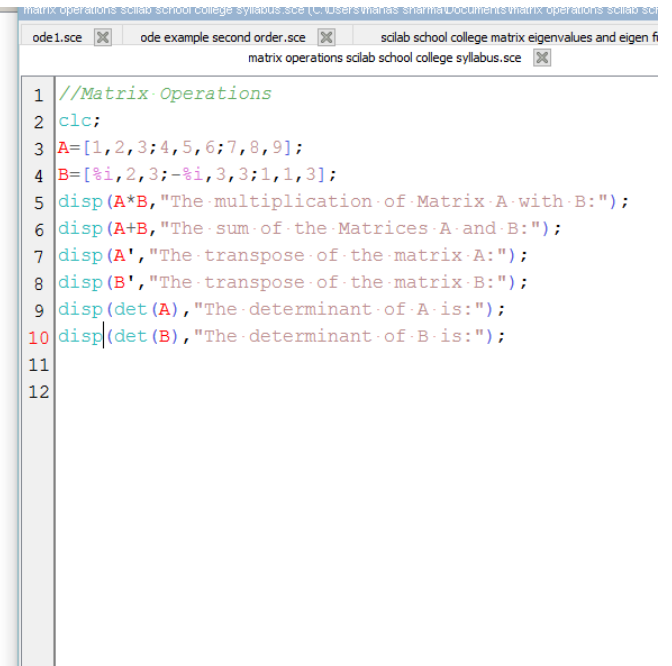
The determinant of A is:

 6.661D-16

The determinant of B is:

 - 3. + 9.i

```



```

1 //Matrix Operations
2 clc;
3 A=[1,2,3;4,5,6;7,8,9];
4 B=[%i,2,3;-%i,3,3;1,1,3];
5 disp(A*B,"The multiplication of Matrix A with B:");
6 disp(A+B,"The sum of the Matrices A and B:");
7 disp(A',"The transpose of the matrix A:");
8 disp(B',"The transpose of the matrix B:");
9 disp(det(A),"The determinant of A is:");
10 disp(det(B),"The determinant of B is:");
11
12

```



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I'm a physicist specializing in computational material science with a PhD in Physics from Friedrich-Schiller University Jena, Germany. I write efficient codes for simulating light-matter interactions at

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