>> A = [1 2 3; 4 5 6; 7 8 9]

A =

1 2 3

4 5 6

7 8 9

>> B = [3 2 1; 6 5 4; 9 8 7]

B =

3 2 1

6 5 4

9 8 7

Airthmetic Logical :

>> A+B

ans =

4 4 4

10 10 10

16 16 16

>> A-B

ans =

-2 0 2

-2 0 2

-2 0 2

>> A/B

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate. RCOND = 2.698459e-18.

ans =

-1.8571 0.3810 0.4762

-2.0714 -0.1905 1.2619

-2.2857 -0.7619 2.0476

>> A\*B

ans =

42 36 30

96 81 66

150 126 102

>> A'\*B

ans =

90 78 66

108 93 78

126 108 90

>> A.\*B

ans =

3 4 3

24 25 24

63 64 63

>> A./B

ans =

0.3333 1.0000 3.0000

0.6667 1.0000 1.5000

0.7778 1.0000 1.2857

>> A.\B

ans =

3.0000 1.0000 0.3333

1.5000 1.0000 0.6667

1.2857 1.0000 0.7778

>> A\B

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate. RCOND = 2.202823e-18.

ans =

0 -0.2000 -0.2250

0 1.4000 2.4500

1.0000 -0.2000 -1.2250

>> A.^B

ans =

1 4 3

4096 3125 1296

40353607 16777216 4782969

>> C=A\*A

C =

30 36 42

66 81 96

102 126 150

>> A.'

ans =

1 4 7

2 5 8

3 6 9

>> B.'

ans =

3 6 9

2 5 8

1 4 7

>> A'

ans =

1 4 7

2 5 8

3 6 9

>> B'

ans =

3 6 9

2 5 8

1 4 7

>> A:B

ans =

1 2 3

Logical Operation :

>> A&B

ans =

1 1 1

1 1 1

1 1 1

>> A|B

ans =

1 1 1

1 1 1

1 1 1

>> -A

ans =

-1 -2 -3

-4 -5 -6

-7 -8 -9

>> ~A

ans =

0 0 0

0 0 0

0 0 0

B = 1;

A = 13;

x = (B ~= 0) && (A/B > 12.5)

x =

1