```
1   L=5
2   M=2
3   Q= [-L,L; M, -M;]
4   T = 0
5
6   P = expm(Q*T)
7
8
9
```

Command Window

```
Read https://www.octave.org/bugs.html to learn how to submit bug reports.
For information about changes from previous versions, type 'news'.

warning: function C:\Users\NITHIN ANIL\test.m shadows a core library function
>> TEST1

L = 5
M = 2
Q =

  -5   5
   2  -2

T = 0
P =

Diagonal Matrix

   1   0
   0   1

>> |
```

TEST1.m

```
1   L=5
2   M=2
3   Q= [-L,L; M, -M;]
4   T = 100
5
6   P = expm(Q*T)
7
8
9
```

line: 9   col: 1   encoding: UTF-8   eol: CRLF

Command Window

```
P =

Diagonal Matrix

   1   0
   0   1

>> TEST1

L = 5
M = 2
Q =

  -5   5
   2  -2

T = 100
P =

   0.2857   0.7143
   0.2857   0.7143

>> |
```

```
TEST1.m ✕

1    L=5
2    M=2
3    Q= [-5 5 0 0 0; 2 -7 5 0 0; 0 4 -9 5 0; 0 0 4 -9 5; 0 0 0 -4 4;]
4    T = 0
5
6    P = expm(Q*T)
7
8
9
```

line: 5   col: 1   encoding: UTF-8   eol: CRLF

Command Window

```
L = 5
M = 2
Q =

  -5    5    0    0    0
   2   -7    5    0    0
   0    4   -9    5    0
   0    0    4   -9    5
   0    0    0   -4    4

T = 0
P =

Diagonal Matrix

   1    0    0    0    0
   0    1    0    0    0
   0    0    1    0    0
   0    0    0    1    0
   0    0    0    0    1
```

Command Window

```
>> TEST1

L = 5
M = 2
Q =

  -5    5    0    0    0
   2   -7    5    0    0
   0    4   -9    5    0
   0    0    4   -9    5
   0    0    0   -4    4

T = 100
P =

  -1.4623e+60   -4.6958e+60   -8.0594e+60   -1.5130e+61    2.9347e+61
  -1.8783e+60   -6.0316e+60   -1.0352e+61   -1.9433e+61    3.7695e+61
  -2.5790e+60   -8.2816e+60   -1.4214e+61   -2.6683e+61    5.1757e+61
  -3.8732e+60   -1.2437e+61   -2.1346e+61   -4.0073e+61    7.7730e+61
  -6.0103e+60   -1.9300e+61   -3.3125e+61   -6.2184e+61    1.2062e+62

>> |
```


Values of Matrix P vs. T