

```
>> A= [1 2 3 4; 5:8]
```

```
A =
```

1	2	3	4
5	6	7	8

```
>> zeros(5,6)
```

```
ans =
```

0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0

```
>> ones(4,3)
```

```
ans =
```

1	1	1
1	1	1
1	1	1
1	1	1

```
>> 5*ones(3,3)
```

```
ans =
```

5	5	5
5	5	5
5	5	5

```
>> ones(1,5)
```

```
ans =
```

1	1	1	1	1
---	---	---	---	---

```
>> zeros(1 ,5)
```

```
ans =
```

0	0	0	0	0
---	---	---	---	---

```
>> diagram=diag[5:9]
```

```
diagram=diag[5:9]
```

Error: Unbalanced or unexpected parenthesis or bracket.

```
>> diagram=diag([5:9])
```

diagram =

5	0	0	0	0
0	6	0	0	0
0	0	7	0	0
0	0	0	8	0
0	0	0	0	9

```
>> rand
```

ans =

0.8147

```
>> rand(3,4)
```

ans =

0.9058	0.6324	0.5469	0.1576
0.1270	0.0975	0.9575	0.9706
0.9134	0.2785	0.9649	0.9572

```
>> 1+rand(4,3)*10
```

ans =

5.8538	10.1574	1.3571
9.0028	8.9221	9.4913
2.4189	10.5949	10.3399
5.2176	7.5574	7.7874

```
>> fix(1+rand(4,3)*10)
```

ans =

8	2	1
8	8	1
4	1	9
7	3	7

```
>> randi(10,5,4)
```

ans =

4	8	7	7
---	---	---	---

10	8	8	2
1	2	8	2
5	5	3	5
4	5	7	10

```
>> rani(20,4)
```

```
Undefined function or variable 'rani'.
```

```
Did you mean:
```

```
>> randi(20,4)
```

```
ans =
```

7	6	20	6
12	11	11	17
5	14	3	6
16	18	3	17

```
>> randi([5,10],5)
```

```
ans =
```

6	8	8	7	9
10	7	10	8	10
7	7	6	5	5
6	9	9	5	8
6	8	9	8	7

```
>> randn(5) %Normal random distribution
```

```
ans =
```

-1.9330	0.1001	0.7394	1.3546	-1.9609
-0.4390	-0.5445	1.7119	-1.0722	-0.1977
-1.7947	0.3035	-0.1941	0.9610	-1.2078
0.8404	-0.6003	-2.1384	0.1240	2.9080
-0.8880	0.4900	-0.8396	1.4367	0.8252

```
>> format compact
```

```
>> randn(1,10e5);
```

```
>> r=randn(1,10e5);
```

```
>> hist(r,100)
```

```
Warning: MATLAB has disabled some advanced graphics  
rendering features by switching to software OpenGL. For  
more information, click here.
```

```
>> rand(1,3)
```

```
ans =
```

0.7211	0.1114	0.7841
--------	--------	--------

```
>> rng(0)
```

```
>> rand(1,3)
ans =
    0.8147    0.9058    0.1270
>> rng(0);
>> rand(1,3)
ans =
    0.8147    0.9058    0.1270
>> rng(1) '
ans =
    Type: 'twister'
    Seed: 0
    State: [625x1 uint32]
>> rng(1)
>> rng(1);
>> [rand randn randi(10)];
>> [rand randn randi(10)]
ans =
    0.3023   -0.7585    1.0000
>> rng;
>> rng(1);
>> [rand randn randi(10)]
ans =
    0.4170    1.1812    1.0000
>> rng(1);
>> [rand randn randi(10)]
ans =
    0.4170    1.1812    1.0000
>> rng(2);
>> [rand randn randi(10)]
ans =
    0.4360   -2.5415    6.0000
>> rng(2);
>> [rand randn randi(10)]
ans =
    0.4360   -2.5415    6.0000
>> rng('shuffle');[
rng('shuffle');[rand randn randi(10)]
rng('shuffle');[rand randn randi(10)]
rng('shuffle');[rand randn randi(10)]

[rand randn randi(10)]
```