
Revision-MATLAB

1) %Matrices

Code :-

```
A=[1 2 3;5 6 4;7 8 9];  
B=ones(3,3);  
A+B  
C=A*B  
D=A.*C
```

Output :-

```
>> LAB0
```

ans =

```
2   3   4  
6   7   5  
8   9  10
```

C =

```
6   6   6  
15  15  15  
24  24  24
```

D =

```
6  12  18  
75 90  60  
168 192 216
```

```
>> size(D)
```

```
ans =
```

```
3 3
```

```
>> length(D)
```

```
ans =
```

```
3
```

```
>> trace(A)
```

```
ans =
```

```
16
```

```
>> det(A)
```

```
ans =
```

```
-18.0000
```

```
>> rank(A)
```

```
ans =
```

```
3
```

```
>> tril(A)
```

```
ans =
```

```
1  0  0
5  6  0
7  8  9
```

```
>> triu(A)
```

```
ans =
```

```
1  2  3
0  6  4
0  0  9
```

```
>> diag(A)
```

```
ans =
```

```
1
6
9
```

```
>>G= eye(3,3)
```

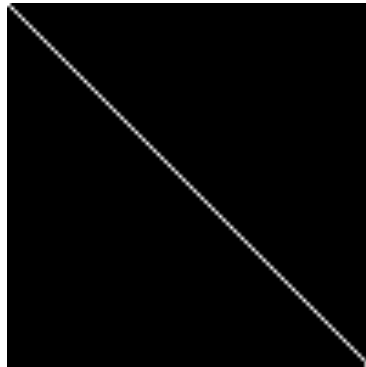
```
G =
```

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

0 0 1

```
>> G=eye(100,100);
```

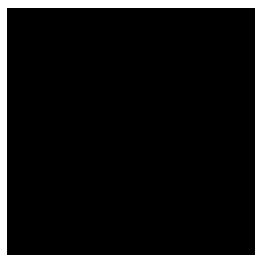
```
>> imshow(G)
```



```
>> H=ones(100,100);
```

```
>> J=G-H;
```

```
>> imshow(J)
```



2)

>> A

A =

| | | |
|---|---|---|
| 1 | 2 | 3 |
| 5 | 6 | 4 |
| 7 | 8 | 9 |

>> [V D] = eig(A)

V =

| | | |
|---------|---------|---------|
| -0.2401 | -0.8432 | 0.2877 |
| -0.4797 | 0.5027 | -0.7819 |
| -0.8439 | 0.1905 | 0.5530 |

D =

| | | |
|---------|---------|--------|
| 15.5393 | 0 | 0 |
| 0 | -0.8703 | 0 |
| 0 | 0 | 1.3310 |