

OBIKA PROMISE CHISOM  
COMPUTER ENGINEERING  
17/ENG02/058

2.

```
commandwindow  
clear  
clc  
A=[1,-2,-1,3;2,3,0,1;1,0,-4,-2;0,-1,3,1]  
eig(A)
```

A =

```
1 -2 -1 3  
2 3 0 1  
1 0 -4 -2  
0 -1 3 1
```

ans =

```
2.4323 + 2.2437i
```

$$2.4323 - 2.2437i$$

$$-1.9323 + 1.7651i$$

$$-1.9323 - 1.7651i$$

ii) THE SYSTEM OF THE EIGENVALUES IS UNSTABLE.

THIS IS BECAUSE NOT ALL THE EIGENVALUE ARE OF THE SAME OPERATION(SIGN).