

**NAME: CHINEDUM PRUDENCE ESE**  
**MATRIC NUMBER: 17/ENG01/007**  
**DEPARTMENT: CHEMICAL ENGINEERING**  
**ENG 281: ASSIGNMENT 4**

1. commandwindow
2. clear
3. clc
4.  $a = [1, -2, -1, 3; 2, 3, 0, 1; 1, 0, -4, -2; 0, -1, 3, 1]$
5. eig(a)

a =

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

ans =

$$2.4323 + 2.2437i$$

$$2.4323 - 2.2437i$$

$$-1.9323 + 1.7651i$$

$$-1.9323 - 1.7651i$$

Therefore it is unstable