NAME: ONYENIKE UGO PROMISE

DEPARTMENT: ELECT/ELECT

COURSE CODE: ENG231

**ASSIGNMENT 4**

**INPUT:**

commandwindow

clear

clc

a=[1,-2,-1,3;2,3,0,1;1,0,-4,-2;0,-1,3,1]

eig(a)

i=sqrt(-1)

**OUTPUT**

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

i =

 0.0000 + 1.0000i

It is unstable because our values gotten are positive