1)

a) Clear- to clear variables in workspace.

b) clc – to clear variables in command window.

2) CODES:

```
commandwindow
clear
clc
A=[2 3 7 9 4;3 7 9 12 5;4 8 5 6 9;5 9 2 4 5;6 2 3 7 8]
victor=det(A)
t=transpose(A)
inverter=inv(A)
sym(inverter)
```

OUTPUTS:

A =

2	3	7	9	4
3	7	9	12	5
4	8	5	6	9
5	9	2	4	5
6	2	3	7	8

victor =

-765.0000

t =

2	3	4	5	6
3	7	8	9	2
7	9	5	2	3
9	12	6	4	7
4	5	9	5	8

Inverter =

1.8915	-1.4026	-0.3124	0.7843	-0.2078
-0.4379	0.3268	0.0523	-0.0392	-0.0196
2.5725	-1.8392	-0.0863	0.7647	-0.5176
-1.8876	1.4654	0.0105	-0.6078	0.3961
-0.6222	0.3778	0.2444	-0.3333	0.1333

Inverter =

[1447/765, -1073/765, -239/765, 40/51, -53/255]
[-67/153, 50/153, 8/153, -2/51, -1/51]
[656/255, -469/255, -22/255, 13/17, -44/85]
[-1444/765, 1121/765, 8/765, -31/51, 101/255]
[-28/45, 17/45, 11/45, -1/3, 2/15]

3) CODES:

```
1. commandwindow
2. clear
3. clc
4. A=[0 10 4 -2;-3 -17 1 2;1 1 1 0;8 -34 16 -10]
5. B=[-4;2;6;4]
6. inverter= inv(A)
7. Solution=inverter*B
8. w=Solution(1,1)
9. x= Solution (2,1)
10.y=Solution (3,1)
11.z= Solution(4,1)
```

OUTPUTS:

A =

```
 0   10    4   -2
-3  -17    1    2
 1    1    1    0
 8  -34   16  -10
```

B =

```
-4
 2
 6
 4
```

Inverter =

```
-0.1786  -0.1020   0.5714   0.0153
 0.0357  -0.0153   0.0357  -0.0102
 0.1429   0.1173   0.3929  -0.0051
-0.0357   0.1582   0.9643  -0.0612
```

Solution =

```
 4.0000
-0.0000
 2.0000
 6.0000
```

w =

```
 4
```

x =

-9.7145e-17

y =

2.0000

z =

6.0000