



**NAME OF EXERCISE :** Gauss Jordan Method

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**BRANCH :** Computer Science

**DIV :** J

**DATE :** 22-03-2021

**QUESTION:** Solve the following Linear Equations by Gauss Jordan Method

$$x + y + z = 9, 2x - 3y + 4z = 13, 3x + 4y + 5z = 40.$$

**CODE:**

A=input ('enter matrix element A=' )//coefficient matrix

B=input('enter matrix element B=' )//column matrix

disp('A=',A)

disp('B=',B)

A\_aug=[A B]//augmented matrix

disp('A\_aug',[A B])

disp('Reduced A\_aug',rref(A\_aug))

C=linsolve(A,-B)//command solves the linear equation  $px+q=0$

disp('Ans=',C)

**INPUT:**

enter matrix element A=[1 1 1 ; 2 -3 4 ; 3 4 5]

enter matrix element B=[9;13;40]



Shri Vile Parle Kelavani Mandal's

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**OUTPUT:**

"A="

1. 1. 1.
2. -3. 4.
3. 4. 5.

"B="

- 9.
- 13.
- 40.

"A\_aug"

1. 1. 1. 9.
2. -3. 4. 13.
3. 4. 5. 40.

"Reduced A\_aug"

1. 0. 0. 1.
0. 1. 0. 3.
0. 0. 1. 5.

"Ans="

- 1.
- 3.
- 5.



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```
Scilab 6.1.0 Console
loading initial environment

--> exec('C:\Users\AYUSH JAIN\OneDrive\Desktop\Scilab1.sce', -1)
enter matrix element A=[1 1 1;2 -3 4;3 4 5]

enter matrix element B=[9;13;40]

"A="

1.  1.  1.
2. -3.  4.
3.  4.  5.

"B="

9.
13.
40.

"A_aug"

1.  1.  1.  9.
2. -3.  4. 13.
3.  4.  5. 40.

"Reduced A_aug"

1.  0.  0.  1.
0.  1.  0.  3.
0.  0.  1.  5.

"Ans="

1.
3.
5.

-->
```