NAME OF EXERCISE: Gauss Seidal Method
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BRANCH : Computer Science **DIV** :J **DATE** : 02-04-2021

QUESTION:

Solve By following Linear Equations by Gauss Seidel Method

$15x + 2y + z = 18$, $2x + 20y - 3z = 19$, $3x - 6y + 25z = 22$

CODE:

```
a=input ('Enter A=')
b=input ('Enter B=')
i=[0;0;0]
for j=1:5
 x=(b(1)-a(1,2)*i(2)-a(1,3)*i(3))/a(1,1)
 i(1)=x
 y=(b(2)-a(2,1)*i(1)-a(2,3)*i(3))/a(2,2)
 i(2)=y
 z=(b(3)-a(3,1)*i(1)-a(3,2)*i(2))/a(3,3)
 i(3)=z
end
disp(i)
```

INPUT:

Enter A= [15 2 1; 2 20 -3; 3 -6 25]

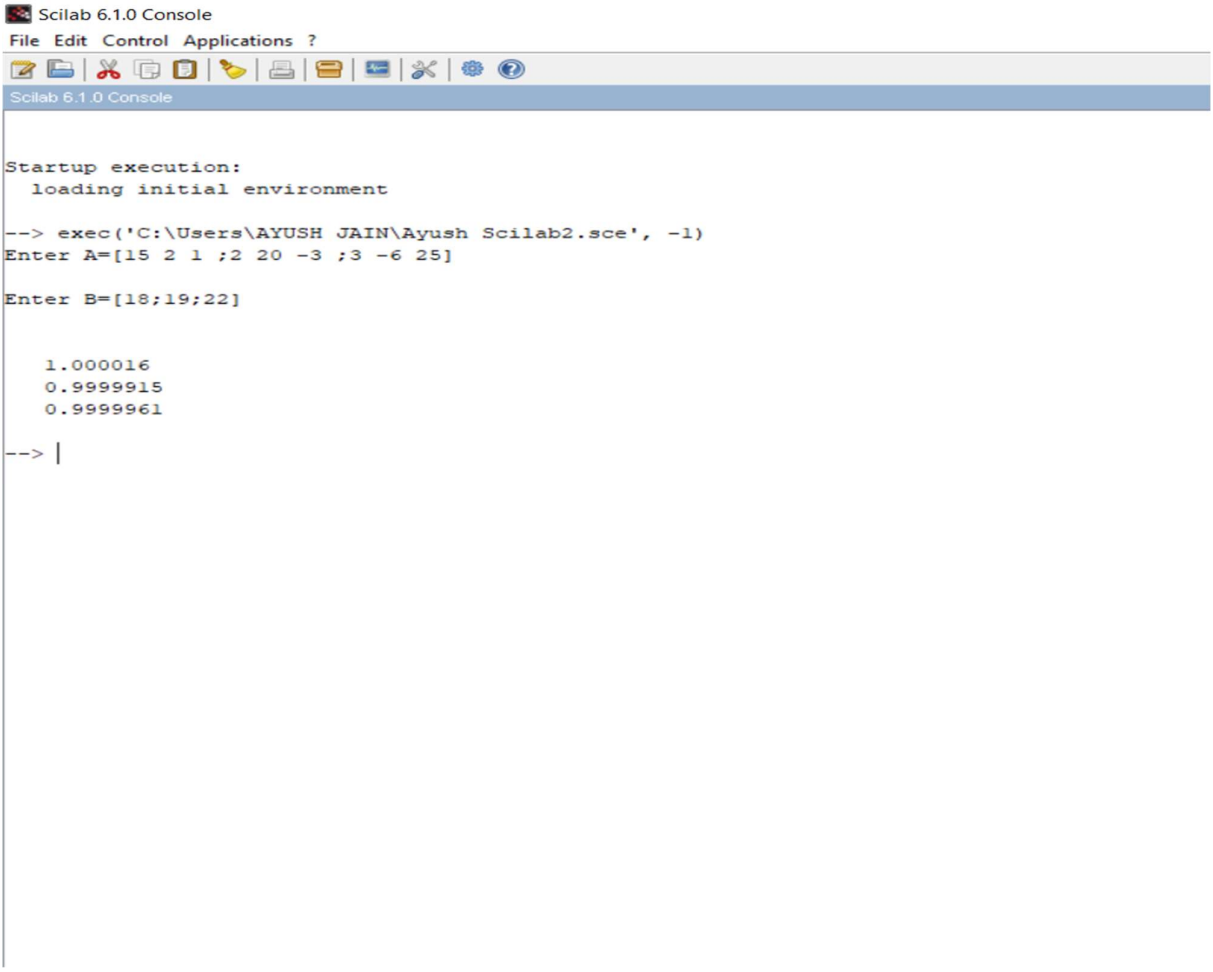
Enter B=[18; 19 ;22]

OUTPUT:

1.000016

0.9999915

0.9999961


Scilab 6.1.0 Console
File Edit Control Applications ?
Scilab 6.1.0 Console
Startup execution:
loading initial environment
--> exec('C:\Users\AYUSH JAIN\Ayush Scilab2.sce', -1)
Enter A=[15 2 1 ;2 20 -3 ;3 -6 25]
Enter B=[18;19;22]
1.000016
0.9999915
0.9999961
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