```
Enter the number of unknowns (equations): 4
Enter the entries the coefficient matrix rowwise: [2 -1 1 -1; 0 1 -1 1; 0 0 0 1; 0 0 1↙
-1]
Enter the entries of the right hand side centor: [6;5;5;3]
The augmented matrix corresponding to the system is givne by:
     2    -1     1    -1     6
     0     1    -1     1     5
     0     0     0     1     5
     0     0     1    -1     3

Gaussian elimination steps:
Step- 1

     2    -1     1    -1     6
     0     1    -1     1     5
     0     0     0     1     5
     0     0     1    -1     3

Step- 2

     2    -1     1    -1     6
     0     1    -1     1     5
     0     0     0     1     5
     0     0     1    -1     3

Step- 3

     2    -1     1    -1     6
     0     1    -1     1     5
     0     0     1    -1     3
     0     0     0     1     5

Solution of the system is given by:
    5.5000
    8.0000
    8.0000
    5.0000

>>
```