

Output

Install the latest PowerShell for new features and improvements! <https://aka.ms/PSWindows>

```
PS C:\Users\Anjali Rana\OneDrive\Desktop\vs code\CBNST 5th sem> cd "c:\Users\Anjali Rana\OneDrive\Desktop\vs  
h sem\" ; if ($?) { gcc prog8.c -o prog8 } ; if ($?) { .\prog8 }
```

Enter the number of rows: 3

Enter the matrix:

6 -1 1 13

1 1 1 9

10 1 -1 19

Identity Matrix generated is:

1	0	0	2
---	---	---	---

0	1	0	3
---	---	---	---

0	0	1	4
---	---	---	---

The Values of unknowns are:

x1: 2

x2: 3

x3: 4

```
PS C:\Users\Anjali Rana\OneDrive\Desktop\vs code\CBNST 5th sem> |
```

Output

```
PS C:\Users\Anjali Rana\OneDrive\Desktop\vs code\CBNST 5th sem> cd "c:\Users\Anjali Rana\OneDrive\Desktop\vs
h sem\" ; if ($?) { gcc prog9.c -o prog9 } ; if ($?) { .\prog9 }
Enter the number of rows: 2
Enter the matrix:
3 1 11
2 5 16
Enter the allowed error: 0.001
1 Approximation The values of unknowns are:
x1: 3.6667 x2: 1.7333
2 Approximation The values of unknowns are:
x1: 3.0889 x2: 1.9644
3 Approximation The values of unknowns are:
x1: 3.0119 x2: 1.9953
4 Approximation The values of unknowns are:
x1: 3.0016 x2: 1.9994
5 Approximation The values of unknowns are:
x1: 3.0002 x2: 1.9999

The solution are:
x1: 3.0000
x2: 2.0000
PS C:\Users\Anjali Rana\OneDrive\Desktop\vs code\CBNST 5th sem> |
```