## Output:

```
PS C:\Users\user\OneDrive - College of Applied Business\Desktop\CAB\Lab\5th_sem_lab> cd "c:\Users\user\OneDrive - 
ab\5th_sem_lab\simulation\" ; if ($?) { gcc 1_Markov_chain.c -o 1_Markov_chain } ; if ($?) { .\1_Markov_chain }
Enter the transition matrix (eg: 0.7 0.3 0.4 0.6 for a 2x2 matrix):
0.7
0.3
0.6
0.4
Transition matrix:
0.700000 0.300000
0.600000 0.400000
Enter the current state matrix (eg. 1 0 for state 1):
1
0
Enter the number of steps to generate:
4
State sequence probabilities:
1.000000 0.000000
0.700000 0.300000
0.670000 0.330000
0.667000 0.333000
0.666700 0.333300
PS C:\Users\user\OneDrive - College of Applied Business\Desktop\CAB\Lab\5th_sem_lab\simulation>
```