C:\WINDOWS\SYSTEM32\cmd.exe

```
Enter the No: of Vertices:
Enter the Adjacency Matrix:
0 0 1 0 0
0 0 1 0 0
0 0 0 1 1
00001
0 0 0 0
The topological order is:1 2 3 4 5
(program exited with code: 0)
Press any key to continue . . . _
```

```
#include <stdio.h>
 3
     int main()
 4
     int i, j, k, n, a[10][10], indegree[10], flag[10], count=0;
 6
     printf("Enter the No: of Vertices:\n");
 8
     scanf ("%d", &n);
 9
     printf("Enter the Adjacency Matrix:\n");
10
11
     for (i=0; i<n; i++)
12
     for (j=0; j<n; j++)
13
     scanf("%d", &a[i][j]);
14
15
16
    for (i=0; i<n; i++) {
17
18
              indegree[i]=0;
19
              flag[i]=0;
20
21
         for (i=0; i<n; i++)
22
23
              for (j=0; j<n; j++)
24
                  indegree[i]=indegree[i]+a[j][i];
25
26
         printf("\nThe topological order is:");
27
28
          while (count<n) {
29
              for (k=0; k<n; k++) {
30
                  if((indegree[k]==0) && (flag[k]==0)){
31
                      printf("%d ",(k+1));
32
                      flag [k]=1;
33
34
35
                  for (i=0; i<n; i++) {
36
                      if (a[i][k]==1)
                           indegree[k]--;
37
38
```

```
printf("Enter the Adjacency Matrix:\n");
10
     for(i=0;i<n;i++)
11
12
    ₫{
     for(j=0;j<n;j++)
13
     scanf("%d", &a[i][j]);
14
15
16
    pfor(i=0;i<n;i++) {</pre>
17
               indegree[i]=0;
18
              flag[i]=0;
19
20
21
          for (i=0; i<n; i++)</pre>
22
23
              for (j=0; j<n; j++)</pre>
                   indegree[i]=indegree[i]+a[j][i];
24
25
26
          printf("\nThe topological order is:");
27
          while (count<n) {</pre>
28
29
               for (k=0; k<n; k++) {
                   if((indegree[k]==0) && (flag[k]==0)){
30
31
                       printf("%d ",(k+1));
                       flag [k]=1;
32
33
34
35
                   for (i=0;i<n;i++) {</pre>
36
                       if(a[i][k]==1)
                            indegree[k]--;
37
38
                   }
39
40
41
               count++;
42
43
44
          return 0;
45
46
```