```
main.c
      #include<stdio.h>
  1
         int temp[10],k=0;
  2
   3
  4
      void topo(int n,int indegree[10],int a[10][10])
  5 =
         int i,j;
  6
  7
  8
         for(i=1;i<=n;i++)
  9 =
           {
 10
                      if(indegree[i]==0)
 11 -
 12
                       indegree[i]=1;
                         temp[++k]=i;
 13
 14
                                for(j=1;j<=n;j++)
 15 -
                                    if(a[i][j]==1&&indegree[j]!=-1)
 16
                                     indegree[j]--;
 17
 18
                                   i=0;
 19
 20
 21
 22
 23
 24
        void main()
 25 -
         int i,j,n,indegree[10],a[10][10];
 26
         printf("enter the number of vertices:");
 27
         scanf("%d",&n);
 28
         for(i=1;i<=n;i++)
 29
         indegree[i]=0;
 30
```

```
main.c
 24
        void main()
 25
         int i,j,n,indegree[10],a[10][10];
 26
 27
         printf("enter the number of vertices:");
 28
         scanf("%d",&n);
 29
        for(i=1;i<=n;i++)
                                                                    I
 30
        indegree[i]=0;
 31
 32
        printf("\n enter the adjacency matrix\n");
        for(i=1;i<=n;i++)
 33
 34
        for(j=1;j<=n;j++)
 35 -
           scanf("%d",&a[i][j]);
 5[7]
 if(a[i][j]==1)
 indegree[j]++;
 39
 topo(n,indegree,a);
 76
 ĪŅ
 if(k!=n)
        printf("topological ordering is not possible\n")
40
rij.
     else
Ma
47 -
           printf("\n topological ordering is :\n");
48
           for(i=1:i<=k;i++)
715)
           printf("v%d\t",temp[i]);
50
51
52
53
                                                            mount
```

enter the number of vertices:5 enter the adjacency matrix 0 0 0 1 0 0 0 1 0 0 0 0 1 topological ordering is : v1 ∇^2 ... Program finished with exit code 5 Press ENTER to exit console.