Write program to obtain the Topological ordering of vertices in a given digraph.

```
#include<stdio.h>
 int temp[10],k=0;
void topo(int n,int indegree[10],int a[10][10])
 int i,j;
 for(i=1;i<=n;i++)
  {
        if(indegree[i]==0)
         indegree[i]=1;
          temp[++k]=i;
              for(j=1;j<=n;j++)
               {
                if(a[i][j]==1&&indegree[j]!=-1)
                indegree[j]--;
               i=0;
          }
   }
 }
 void main()
 {
 int i,j,n,indegree[10],a[10][10];
 printf("enter the number of vertices:");
 scanf("%d",&n);
 for(i=1;i<=n;i++)
 indegree[i]=0;
 printf("\n enter the adjacency matrix\n");
 for(i=1;i<=n;i++)
 for(j=1;j<=n;j++)
   scanf("%d",&a[i][j]);
   if(a[i][j]==1)
```

```
indegree[j]++;
}

topo(n,indegree,a);

if(k!=n)
 printf("topological ordering is not possible\n");

else
{
    printf("\n topological ordering is :\n");
    for(i=1;i<=k;i++)
    printf("v%d\t",temp[i]);
    }
}</pre>
```

Output