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

Code:

```
#include<stdio.h>
#include<conio.h>
void main(){
    int a[10][10],n,i,j;
    int indeg[10],flag[10],c=0;
    printf("Enter number of vertices \n");
    scanf("%d",&n);
    printf("Enter adjacency matrix: \n");
    for(i=0;i<n;i++)
    for(j=0;j<n;j++)
    scanf("%d",&a[i][j]);
    for(i=0;i<n;i++)
    indeg[i]=0;
    for(i=0;i<n;i++)
    flag[i]=0;
    for(i=0;i<n;i++)
    for(j=0;j<n;j++)
    if(a[i][j]==1)
    indeg[j] += 1;
    printf("Order is : ");
    while(c<=n)
        for(i=0;i<n;i++)
            if(indeg[i] == 0 && flag[i] == 0)
                printf("%d ",i+1);
                flag[i]=1;
            }
        for(i=0;i<n;i++)
            if(flag[i]==1)
            {
```

```
for(j=0;j<n;j++)
{
    if(a[i][j]==1)
    {
        indeg[j]-=1;
        a[i][j]=0;
    }
}
c++;
}</pre>
```

Output:

Observation :

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