PROGRAM 22:

```
#include<stdio.h>
void DFS(int);
int G[10][10], visited[10], n;
int main()
{
  int i,j;
  printf("Enter number of vertices:");
scanf("%d",&n);
printf("\nEnter adjecency matrix of the graph:");
for(i=0;i<n;i++)
    for(j=0;j<n;j++)
scanf("%d",&G[i][j]);
 for(i=0;i<n;i++)
    visited[i]=0;
  DFS(0);
}
void DFS(int i)
{
  int j;
printf("\n%d",i);
  visited[i]=1;
for(j=0;j<n;j++)
    if(!visited[j]&&G[i][j]==1)
       DFS(j);
}
```

OUTPUT: