DFS traversal

```
#include<stdio.h>
#include<conio.h>
void DFS(int);
int a[10][10],vis[10],n;
void main(){
  int i,j;
  printf("Enter the number of vertices ");
  scanf("%d",&n);
  printf("Enter the Adjacency Matrix\n");
  for(i=1;i<=n;i++){
     for(j=1;j<=n;j++){
        scanf("%d",&a[i][j]);
     }
  printf("DFS Traversal\n");
  for(i=1;i <= n;i++){}
     if(vis[i]==0){
        DFS(i);
     }
  check();
  getch();
void DFS(int v){
  int i;
  vis[v]=1;
  printf("%d\t",v);
  for(i=1;i<=n;i++){
     if(a[v][i]==1 \&\& vis[i]==0){
        DFS(i);
     }
  }
}
void check(){
  for(int i=1;i<=n;i++){
     if(vis[i]!=1){
        printf("\nNot connected");
        return;
```

```
}
  printf("\nConnected");
}
```

output:

```
Enter the number of vertices 5
Enter the Adjacency Matrix
0 1 1 999 999
1 0 999 1 1
1 999 0 999 999
999 1 999 0 999
999 1 999 999 0
DFS Traversal
1 2 4 5 3
Connected
```