**Depth First Search**

#include<stdio.h>

int adj[10][10]={0},visited[10]={0},n;

void dfs(int node)

{

int i;

visited[node]=1;

printf("%d ",node);

for(i=0;i<n;i++)

{

if(adj[node][i]==1 && visited[i]==0)

{

dfs(i);

}

}

}

int main()

{

int e,i,v1,v2,node;

printf("\nEnter number of vertices=");

scanf("%d",&n);

printf("\nEnter number of edges=");

scanf("%d",&e);

for(i=0;i<e;i++)

{

printf("\nEnter edge=");

scanf("%d%d",&v1,&v2);

adj[v1][v2]=adj[v2][v1]=1;

}

printf("\nEnter starting node=");

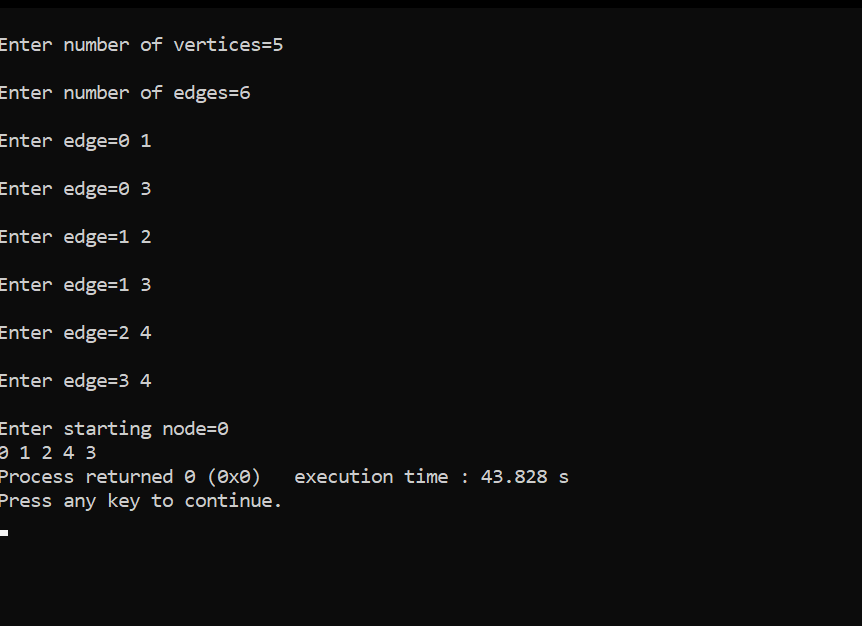
scanf("%d",&node);

dfs(node);

return 0;

}

**DFS**

****