LAB-4

DFS_PrintNodesFromSource.c

```c
#include<stdio.h>

void dfs(int);

int a[10][10],vis[10],n;

int main()

{

int i,j,src;

    printf("enter no. of vertices\n");

    scanf("%d",&n);

    printf("enter adjacency matrix:\n");

    for(i=1;i<=n;i++)

    {

        for(j=1;j<=n;j++)

        {

            scanf("%d",&a[i][j]);

        }

    }


for(i=1;i<=n;i++)

vis[i]=0;
```

```c
    printf("enter source vertex\n");

    scanf("%d",&src);

    printf("nodes reachable from %d vertex\n",src);

    dfs(src);

    return 0;

}


void dfs(int v)

{

    int i;

    vis[v]=1;

    printf("%d",v);

    for(i=1;i<=n;i++)

    {

        if(a[v][i]==1 && vis[i]==0)

        dfs(i);

    }

}
```