```
DFS,BFS:
import java.util.Scanner;
public class DSGraph
{
        public void Dfs(int i,int adjMat[][],boolean v[])
        {
                if(!v[i]) {
                v[i] = true;
                 System.out.println((i + 1) + "\t");
                 for ( int j = 0; j < adjMat.length; j++){
                   if ( adjMat[i][j] ==1 && !v[j] ){
                     Dfs(j, adjMat, v);
                   }
                 }
                }
        }
public static void main(String args[])
{
        int adjMat[][],vnode;
        int size;
        Scanner s=new Scanner(System.in);
```

```
size=s.nextInt();
        {
                vnode=size;
                adjMat=new int[vnode][vnode];
                Scanner in= new Scanner(System.in);
                for(int scr=0;scr<vnode;scr++)</pre>
                {
                         for(int dest=0;dest<vnode;dest++)</pre>
                         {
                                 System.out.println("Enter cost form"+scr+"to"+dest+":");
                                 adjMat[scr][dest]=in.nextInt();
                         }
                }
                for(int scr=0;scr<vnode;scr++)</pre>
                {
                         for(int dest=0;dest<vnode;dest++)</pre>
                         {
                                 System.out.print(""+adjMat[scr][dest]+" ");
                         }
                         System.out.print("\n");
        }
}
        System.out.println("Enter Source");
        int in=s.nextInt();
        DSGraph g=new DSGraph();
```

System.out.println("Enter Size");

```
boolean [] v = new boolean[size];
  for (int i =0; i< v.length; ){
    v[i++] = false;
  }
        g.Dfs(in,adjMat,v);
}
}
CREATION
import java. util. Scanner;
class Graph
{
int adjMat[][] , vnode;
Graph(int size)
{
vnode=size;
adjMat=new int[ vnode][ vnode] ;
Scanner in= new Scanner(System. in) ;
for(int scr=0; scr<vnode; scr++)</pre>
{
for(int dest=0; dest<vnode; dest++)</pre>
{
System. out. println("Enter cost form"+scr+"to"+dest+":");
```

```
adjMat[ scr][ dest]=in. nextInt();
}
}
}
public void Print()
{
for(int scr=0; scr<vnode; scr++)</pre>
{
for(int dest=0; dest<vnode; dest++)</pre>
{
System. out. print(""+adjMat[ scr][ dest]+" ");
}
System. out. print("\n");
}
public void Bfs(int adjMat[] , int S)
{
System. out. println("Enter Source");
}
}
public class DSClass {
public static void main(String args[])
Scanner s=new Scanner(System. in) ;
System. out. println("Enter Size");
int in=s. nextInt();
```

```
Graph g=new Graph(in);
g. Print();
}
```