Dijkstras_Algorithmaa

```
import java.util.Scanner;
public class Dijkstras_Algorithm {
public static int path[] = new int[10];
public static void main(String[] args) {
int tot_nodes,i,j;
int cost[][]=new int[10][10];
int dist[]=new int[10];
int s[]=new int[10];
System.out.println("\n\t\t——-Creation of Graph——");
System.out.println("\nEnter Total Number ofNodes:");
Scanner in = new Scanner(System.in);
tot_nodes=in.nextInt();
create(tot_nodes,cost);
for(i=0;i<tot_nodes;i++) {
System.out.println("\n\t\tPress any Key ToContinue…");
System.out.println("\n\t\tWhen Source="+i);
for(j=0;j<tot_nodes;j++) {
Dijkstra(tot_nodes,cost,i,dist);
if(dist[j]==999)
System.out.println("\n There is no Path to"+j);
else
{
display(i,j,dist);
}
}
}
}
public static void create(int tot_nodes,int cost[][]) {
int i,j,val,tot_edges,count=0;
for(i=0;i<tot_nodes;i++) {
for(j=0;j<tot_nodes;j++) {
if(i==j)
cost[i][j]=0;
else
cost[i][j]=999;
}
}
System.out.println("\n Total Number of Edges:");
Scanner in = new Scanner(System.in);
tot_edges=in.nextInt();
while(count<tot_edges) {
System.out.println("\nEnter Vi and Vj:");
i=in.nextInt();
j=in.nextInt();
System.out.println("\nEnter the cost along thisedge:");
val=in.nextInt();
cost[j][i]=val;
cost[i][j]=val;
count++;
}
```

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