Warshalls_Algorithm.c 🖴 Saved #include<stdio.h> void warshalls(); 3 int a[10][10], p[10][10],i,j,k,n; 4 void warshalls() for(i=1;i<=n;i++) { for(j=1;j<=n;j++) p[i][j]=a[i][j]; for(k=1;k<=n;k++) { for(i=1;i<=n;i++) for(j=1;j<=n;j++) { if((p[i][j]!=1) && (p[i][k]==1 && p[k][j]==1))p[i][j]=1; } } } 23 void main() 24 { printf("Enter Number of Vertices:"); scanf("%d",&n); printf("Enter Adjacency Matrix:"); for(i=1;i<=n;i++) { for(j=1;j<=n;j++) { scanf("%d",&a[i][j]); warshalls(); printf("Path Matrix:\n"); for(i=1;i<=n;i++) { for(j=1;j<=n;j++)

printf("%d",p[i][j]);

printf("\n");

}

45 }

```
Terminal
  ×
Enter Number of Vertices:4
Enter Adjacency Matrix:
0 0 0 1
 0 1 0
Path Matrix:
 0 0 0
```

× Terminal

```
Enter Number of Vertices:5
Enter Adjacency Matrix:
      0
  0 0 1 1
Path Matrix:
  0 0
  0 0
```