```
#include<stdio.h>
    #include<conio.h>
    #include<math.h>
    int max(int,int);
4
    void warshal(int p[10][10],int n) {
5 -
6
          int i,j,k;
7
          for (k=1;k<=n;k++)
8
             for (i=1;i<=n;i++)
 9
              for (j=1;j<=n;j++)
10
                p[i][j]=max(p[i][j],p[i][k]&&p[k][j]);
11
12 int max(int a,int b) {
13
14
           if(a>b)
            return(a); else
15
16
            return(b);
17
 18
      void main() {
            int p[10][10]= {0},n,e,u,v,i,j;
            scanf("%d",&n);
printf("\n Enter the number of edges:");
scanf("%d",&e);
for (i=1;i<=e;i++) {
    printf("\n Enter the end vertices of edge %d:",i);
    respf("%d", %d", %d", %d", %d");</pre>
```

```
void main() {
          int p[10][10]= {0},n,e,u,v,i,j;
19
20
21
          printf("\n Enter the number of vertices:");
22
          scanf("%d",&n);
          printf("\n Enter the number of edges:");
23
24
          scanf("%d", &e);
          for (i=1;i<=e;i++) {
25 -
26
               printf("\n Enter the end vertices of edge %d:",i);
27
               scanf("%d%d",&u,&v);
28
               p[u][v]=1;
29
          printf("\n Matrix of input data: \n");
30
          for (i=1;i<=n;i++) {
31 .
               for (j=1;j<=n;j++)
printf("%d\t",p[i][j]);</pre>
 32
 33
               printf("\n");
          warshal(p,n);
          printf("\n Transitive closure: \n");
for (i=1;i<=n;i++) {
   for (j=1;j<=n;j++)</pre>
                  printf("%d\t",p[i][j]);
               printf("\n");
           getch();
```

```
20
        printf("\n Enter the number of vertices:");
Enter the number of edges:5
                                                            input
Enter the end vertices of edge 1:1 2
Enter the end vertices of edge 2:3 4
Enter the end vertices of edge 3:2 3
Enter the end vertices of edge 4:4 5
Enter the end vertices of edge 5:1 3
 Matrix of input data:
 Transitive closure:
        0
 ...Program finished with exit code 0
```