```
Program:
#include<stdio.h>
#include<conio.h>
int n,a[10][10],p[10][10];
void warshall(int n,int a[10][10],int p[10][10])
{
int i,j,k;
for(i=0;i<n;i++)
   for(j=0;j<n;j++)
          p[i][j]=a[i][j];
  for(k=0;k<n;k++)
    for(i=0;i<n;i++)
          for(j=0;j<n;j++)
            if((p[i][j]==0) \&\& (p[i][k]==1 \&\& p[k][j]==1))
                  p[i][j]=1;
int main()
  int i,j;
  printf("enter the number of vertices\n");
  scanf("%d",&n);
  printf("enter the adjacency matrix\n");
  for(i=0;i<n;i++)
  {
    for(j=0;j<n;j++)
    {
          scanf("%d",&a[i][j]);
    }
  }
   warshall(n,a,p);
   printf("trasitive closure\n");
   for(i=0;i<n;i++)
  {
          for(j=0;j<n;j++)
             printf("%d\t",p[i][j]);
          printf("\n");
  }
  }
```

Output Screenshot:

Select D:\ADA\labs\ada_lab\WARSHAAL.exe