PROGRAM:-

```
#include<stdio.h>
void warshalls();
int a[10][10], p[10][10], i,j,k,n;
void main()
printf("Enter number of vertices\n");
scanf("%d",&n);
printf("enter adjacency matrix\n");
for(i=1;i<=n;i++)</pre>
    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\t",p[i][j]);
     printf("\n");
getch();
```

OUTPUT:

```
Enter number of vertices
enter adjacency matrix
0 0 0 1
1 0 1 1
1 0 0 1
0 0 1 0
Path Matrix
        0
                1
        0
                1
                         1
                1
        0
                         1
        0
                 1
                         1
```