## WARSHALLS ALGORITHM:

## PROGRAM:

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

## OUTPUT:

```
User@PRATHIKSHA /c/ada lab
$ cd "/c/ada lab/" && gcc warshall.c -o warshall && "/c/ada lab/"warshall
Enter the number of vertices: 4
Enter the adjacency matrix
0 1 1 0
0 0 1 1
0 0 0 0
Trasitive closure:
0 1 1 1
0 0 0 1
0 0 0 0
```