```
#include<stdio.h>
     #include<conio.h>
    #include<process.h>
 3
     void warshalls();
     int a[10][10],p[10][10];
 5
     int i,j,k,n;
 8
     int main()
9
      printf("Enter the No: of vertices :");
10
       scanf("%d", &n);
11
      printf("Enter the Adjacency matrix :\n");
12
      for (i=1; i<=n; i++)
13
14
15
      for (j=1; j<=n; j++)</pre>
16
      scanf("%d", &a[i][j]);
17
18
19
20
     warshalls();
21
      printf("Path Matrix :\n");
22
      for (i=1; i<=n; i++)
23
24
    日{
25
      for (j=1; j<=n; j++)</pre>
26
      printf("%d ",p[i][j]);
27
28
29
     printf("\n");
30
31
      return 0;
32
33
     void warshalls()
34
35
      for (i=1; i<=n; i++)
36
37
    for (i-1 · i/-n · i++)
20
```

```
warshalls();
21
      printf("Path Matrix :\n");
22
23
      for (i=1; i<=n; i++)
24
25
      for (j=1; j<=n; j++)
26
    申{
27
      printf("%d ",p[i][j]);
28
29
     printf("\n");
30
31
      return 0;
32
33
34
     void warshalls()
35
   ₽{
36
      for (i=1; i<=n; i++)
37
38
      for (j=1; j<=n; j++)
39
      p[i][j]=a[i][j];
40
41
42
43
      for (k=1; k<=n; k++)
44
      for (i=1; i<=n; i++)
45
46
    白{
47
      for (j=1; j<=n; j++)
48
      if((p[i][j]!=1) &&(p[i][k]==1 && p[k][j]==1))
49
      p[i][j]=1;
50
51
52
53
54
55
```

## C:\WINDOWS\SYSTEM32\cmd.exe