```
2
                               Online C Compiler.
4
                   Code, Compile, Run and Debug C program online.
   Write your code in this editor and press "Run" button to compile
6
   8
   #include<stdio.h>
   #define V 4
9
10
   void printSolution(int dist[][V]);
11
12
13
   int min(int i,int j)
14 -
15
     if(i<j)
16
       return i;
17
     return j;
18
19
20
   void floyd(int A[][4])
21
22
     int i,j,k,P[4][4];
23
     for(i=0;i<4;i++)
24
25
         for(j=0;j<4;j++)</pre>
26
           P[i][j]=A[i][j];
27
28
      for(k=0;k<4;k++)
         for(i=0;i<4;i++)
29
30
              for(j=0;j<4;j++)
31
                   if(P[i][k]==1 && P[k][j]==1)
                    P[i][j]=1;
32
33
       printSolution(P);
34
35
36
    void printSolution(int dist[][V])
37
38
                                                              inpu
```

```
nain.c
          for(j=0;j<4;j++)
25
              P[i][j]=A[i][j];
26
27
       for(k=0;k<4;k++)
28
            for(i=0;i<4;i++)
29
                for(j=0;j<4;j++)
if(P[i][k]==1 && P[k][j]==1)
30
31
                        P[i][j]=1;
32
33
        printSolution(P);
34
35
36
     void printSolution(int dist[][V])
37
38
                 ("The following matrix shows the shortest distances"
39
                     between every pair of vertices \n");
40
          for (int i = 0; i < V; i++)
41
42 -
                  (int j = 0; j < V; j \leftrightarrow)
43
44 -
                      printf ("%d", dist[i][j]);
45
46
              printf("\n");
 47
48
49
50
51
     int main()
 52
53 -
          int graph[V][V] = { {0,1,0,0},
 54
 55
                                 {0,0,0,1},
                                 {0,0,0,0},
 56
 57
                                 \{1,0,1,0\}
 58
          printf("\n\n");
 59
 60
          floyd(graph);
 61
          return 0;
 62
```

The following matrix shows the shortest distances between every pair of vertices 1111 1111 0000 1111 Press ENTER to exit console.