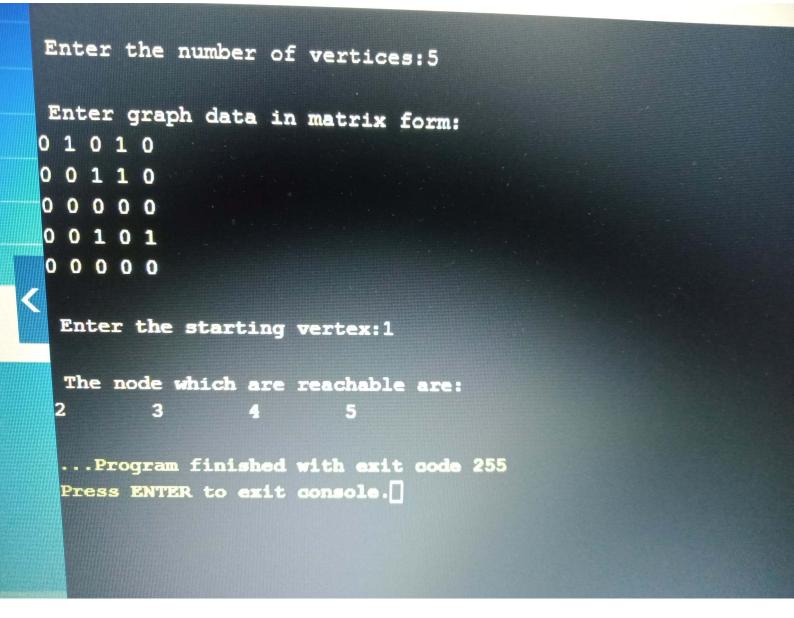
```
#include<stdio.h>
   #include<comio.h>
2
3 int a[20][20],q[20],visited[20],n,i,j,f=0,r=-1;
4 void bfs(int v)
5 - {
6 for(i=1;i<=n;i++)
7 if(a[v][i] && !visited[i])
8 q[++r]=i;
9 if(f<=r)
10 - {
visited[q[f]]=1;
12
   bfs(q[f++]);
13
14
    void main()
15
16 - {
17
    int v;
18
    printf("\n Enter the number of vertices:");
19
     scanf("%d",&n);
    for(i=1;i<=n;i++)
 22
    q[i]=0;
    visited[i]=0;
```

```
13
14
    void main()
15
16 - {
17
     int v;
18
     printf("\n Enter the number of vertices:");
19
     scanf("%d",&n);
 20
     for(i=1;i<=n;i++)
 21
 22 - {
 23
     q[i]=0;
 24
     visited[i]=0;
 25
     printf("\n Enter graph data in matrix form:\n");
 26
      for(i=1;i<=n;i++)
 27
      for(j=1;j<=n;j++)
      scanf("%d",&a[i][j]);
      scanf("%d",&v);
      bfs(v);
      for(i=1;i<=n;i++)</pre>
      if(visited[i])
```



```
* Print autre nodes reachable from
  a given starting node in a digraph using
  BFS method.
 #Include 2st dio.h>
 It include & conto. h>
 Void bas(int v)
fon(i=1; iz=n; i++)
 if (acvj cij && !visited[i])
 9[++1]=1;
 (r=27) #
 visited [acti]=1;
 bfs (2[f++]);
 void main ()
  int V;
  printf("In Extra the no. of vortices ");
  Scanfl" "/d", ans,
  Fon(i=1; izn; i++)
  9(1) :0;
```

visited [i] = 0: pints ("In Enter graph dosta in matrix form"); (1=1; ix=n; i++) 102 (j=1) / = n; j++) sanfl" /d", &a [i] [i]); built (" In Enter the starting vertex: "); Scanf (" Y.d", 20); bfs(V); printf ("In The node which are reachable are: 10% fon (i=1; i2=n; i++) if (visited CiJ) luid (1.1.11t", 1); getch ();