```
Write a c program depth first search (DFs) using array
#include < stdio. h>
int G[10] [10], visited [10], n;
void pfs (int i)
   int is
 printf ("In 7.d"; ");
    visited [i]= I;
 for (j=0; j(n;j+t)
     if (visi ted (i) && G[i][j]==I)
        DFS(i);
 void main ()
  int is in
   print f ("Enter number of vertices:");
    Scanf (" y.d", en);
  printf ("In Enter adjacency matrix of the graph: ");
  for (i=o; izn; i++)
     for (j =0; 54n; 5++)
  scanf ("1.1. d", &G[i][i]);
     for (i=0; izn; i++)
          visited (17 =0;
     DFS(0);
```

```
w) write a c program breath first search (BFS) ussing array
   Hinclude estdio. hx
   int a [20] [20], 2 [20], visited [20], n, i, j, f=0, r=1;
   void bfs (int v)s
      for (i=1; i = n; i++)
         if (apolities visited [i])
         ? [++v] =i:
      if (f (= Y ) {
              visited[28f]]=15
               bfs (9 (f++));
   Void main ()
     int V;
     print f ("In finter the number of vertices:");
     Scanf ("1.d", &n);
     for (1=1;12=n;1++) {
            9[i] =0;
             visited [i]=0;
   prints ("In Enter graph data in matrix from: In')
   for li=1; izn; i++)
      for (1=133 z=n; i++)
         Scan f (" /. d", & a [i] [j]);
        printf (" in Enter the starting vertex");
         scanf (" y, d", &v);
         bfs(V);
         Prints ("In the node which are reachable are: In").
         for (i= 1; ic=n; i+t)
          if (visited eig)
            printf (" d It", i);
```

Scanned with CamScanner

0/50 prints (" in Bys is not possible");