```
/// Author: Prathamesh Patil - Exp: 2 BFS and
                                                           // DFS
DFS
                                                           // Author: Prathamesh Patil
// BFS:
                                                           #include <iostream>
#include<iostream>
                                                           #include <stack>
#include<queue>
                                                           #define n 6
#define N 6
                                                            using namespace std;
using namespace std;
                                                            int visited[n]{0};
int visited[N]{0};
queue<int> q;
                                                           void DFS(int graph[n][n], int start){
int graph[N][N];
                                                              visited[start] = 1;
                                                              for(int i=0;i< n;i++){
                                                                 if(graph[start][i] == 1 && !visited[i]){
                                                                   cout<<"The edge is: ["<<start<<",
void bfs(int v){
  visited[v] = 1;
                                                           "<<i<<"]"<<endl;
  cout<<v<" ";
                                                                   DFS(graph, i);
  for(int i=0;i<N;i++){
     if(graph[v][i] == 1 && !visited[i]){
                                                              }
                                                           }
        q.push(i);
        visited[i]=1;
     }
                                                            int main(){
  }
                                                              int v;
  if(!q.empty()){
                                                              int graph[n][n];
     int num = q.front();
                                                              cout<<"Enter the matrix
                                                            ("<<n<<"X"<<n<<"):"<<endl;
     q.pop();
     bfs(num);
                                                              for(int i=0;i<n;i++){
  }
                                                                 for(int j=0;j<n;j++){
}
                                                                   cin>>graph[i][j];
                                                                 }
int main(){
                                                              }
  int v;
                                                              cout<<"Enter the vertex to start from: ";
                                                              cin>>v;
  cout<<"Enter the graph in matrix of
                                                              cout<<"DFS of Graph: "<<endl;
["<<N<<"X"<<N<<"]: "<<endl;
                                                              DFS(graph, v);
  for(int i=0;i< N;i++){
                                                              return 0;
     for(int j=0;j<N;j++){
                                                           }
        cin>>graph[i][j];
     }
  }
  cout<<"Enter the starting point: ";
  cin>>v;
  cout<<"The traversal order is: "<<endl;
  bfs(v);
  return 0;
}
```

OUTPUT: