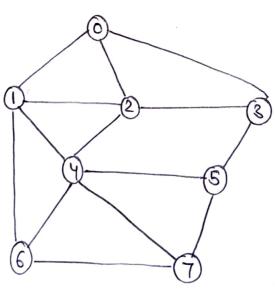
```
ODFS
 #indude < iotacam>
# include < stack>
 using namespace std;
  void read matrix (int **graph, intn) {
     cout << " Matrin = " < c endl;
     for (ant i=0; in; i++) {
         graph[i] = new int[n];
          for (int j=0; jen;j++)

in>> graph[i][j];
 void ofs (int sugraph, int snode, int n, int d-node) {
   bool visited[n];
   fur (int i=0; icn; i++)
      visited [i] = false;
   stack (int > stack;
   stack.push(s_node);
   coutec " DFS = " < cendl;
                                         white (! stack. empty()) {
                                        00 ; ; ; ; ; ; ; ;
     int current_node = stack top ();
                                        1 - 1 - 0 7
     Stark-pop ();
                                        , 00 , , , , ,
    4 (! visited[ament nodi]) {
       cout << arrent_node << "";
                                       0 11 1 2 2 3 3
        visited [aurent_node] = true;
          if (graph[current node][i] == 1 &$ ! visited[i])
stalk.push(i);
        for ( int i = 0; icn; i++) {
          (current_node == d_node)
ouit (0);
  3 contecenal;
```

int main () { int nodu; contex" Entre no of rodes "exendl; cin >> nodes; int \*\* graph = new int \*[nodes]; read-matein (graph, nodes); int starting\_node, destination\_node; couter "Entre starting & distination modes" ee endl; cin >> starting\_node >> distination\_node; dfs (graph, starting-node, nodes, distination\_node); rutum 0;

Output Enter no of rodus 8 Matrin 0 11 1 0 0 0 0 0 11011000 10100100 01100111 00011001 01001001 00001110 Enter starting and distination nodes 0 DFS 0 3 5 7 Given graph is:



```
#include <iotram)
# include < queue)
using namespace std;
 void read-matrin (int **graph, intn) {
   contac" Matrin "candl;
   for (int i=0; i < n; i++){
     graph[i] = nuo int.[n];
      for (intj=0; j<n;j++)&
        cin > > graph [17[]7;
void bf (int * graph, int s_wode, int d_wode, int n) {
  bool visited [n];
  int parent [n];
  for (mit i=0; icn; i+1)
     visited[i]=false, pount[i]=-1;
  queue <int> q;
  visited [s_node] = tmu;
 q. push (s_node);
  while (!q. empty ()) }
```

```
int current node = q. front();
q.pop();
for (int neigh = 0; neigh < n; neigh ++) {
  if (graph[arrent wode][neighborn] == 1 & ! visited[neighborn]) {
     visited [nuighbour] = true;
     parent [neighbour] = arrent node;
      q. push (neigh);
 (! visited [d_node])
contac "No path";
  int shortest-path [n], aurunt = d-node; int path-length=0;
  contec "BFS";
  while (current ! = -1) {
     shortest-path [path-lingth ++] = arrunt;
     current = parent [arrent];
   for ( int i= path_length -1; i>=0; i-7) &
       cout < c shortest_path [i];
       g (il=0)
          cout << "->";
       contecundl;
int main () {
introdus;
ains> no des;
 int graph = new int " [nodis];
 read materia (graph, nodes);
 int s_node, d_node;
cins, s_node>>d_node;
 bfs (graph, s-wode, d-wode, nodes);
 return 0;
```

Output Entre no of nodes 8 Matin 0 111 0000 10101010 11011000 10100100 01100111 00011001 1001001 00001110 Entre starting & distination nochs BFS

PEAS parameters of the roadmap agent is - its performance can be measured by its accuracy of 1 Performance - how well the agent optimizes noutes to minimize trave time or distance. - also it should tell traffic conditions. The agent must also provide real time information of roads, highways, struts, landmarks, and also 2 Environment weather conditions. (3) Actuators The agent unes GPS, voice instructions, display screens. Generates directions, updates nontres and responds to user commands. (4) Sensons Traffic surson, GPS sensors, corneras, microphones, internet. Designing an # intelligent tourist recommender -An intelligent tourist recommender must recommend suitable distinations, athantions, and automodations for tourists based on their preferences, budget, time, 1) Performance - The satisfaction and the overall feedback of townists, their revenue and the total profit of the recommendation system and the quality of ruommendations, etc.

- Environment the database of tourists information, their online websites and online platforms, the user ratings and user rurieus and also the user interface.
- (3) Actuator the processor, the recommendation algo, the display. screen, the speaker, the keyboard, etc.
- 9 Senson these include microphone, comera, etc.