DEPTH FIRST SEARCH. EXP 2

AIM: To write the Depth firt leach program and execute successfully.

PSEUDOCODE:

FUNCTION des Cgraph, unde, visited):

ADD node to visited PRINT node

FOR each mighbor IN graph [node]:

ID highbor not in visited ; care ats Carcoph, neighbour, visured)

FONCTION wave graph ():

CREATE an empty dictionally graph

PROMPT "Enter the number of nodes: " AND FRAD

FOR I from I to hum-modes:

nun_nodes

PROMPT "Enter the mode: "AND READ mode PROMPT "Enter the neighbours of Enode? separed

by space: "AND READ neighbours

SPUT wigbours into a list SET graph Inode = neighbors

RETURN graph

FUNCTION Main ():

SET graph = CALL cleare graph() PROMPT "Enher the starting upde for DFS: " AND

READ Start_node

IF start_node NOT IN graph: PRINT "Starting hade not found in the graph." CREATE an empty set nietted PRINT "DES traveisal étaiting prom noul Estait noul?" CALL als (graph, start nodes, visited) CALL MAIN () PROGRAM: 472977 dy afs (graph, node, visited): visited add (node) - a charge and have peint (node, end=' ') for nighbor in graph Enode]: Warding sold 100. y neighbor not in winted: afs (graph, neighbor, willed) : 1000 1000 1000 def cuare graphelis houses only making the graph = 23 nuen_node = int larget ("Enter the number of noder.")) for in range (num-node): node = ciput (" Enter the node !") ? love with 1000 neighbor = cupert (f" Enter the neighbor of Enode's separated by space: ") graph Enode J=neighbous return grouph I : Bloom with classiff def maist): Le sque de la recepte 1 le modifique mil sur sur graph = cuare graph () is soon which will some start_node =uput ("Enter the exacting node for DFS!")

if start node not in graph: print (12 Starting node not found in the graph: ") letum muted = set () 1 to let . " to . . print (+ "DFS manusal starting from node 2 each mode) offs (graph, start node, winted) ÿ__rame__=="__main__": in the Type main () · Chabaina Do . Magic by OUTPUT :-Enter the number of node : 6 Enter the node: A
Enter the neighbors of A expended by space: B Enter the node: (Bestien, radispen, Nger:) Ele Enter the nighbor of B seperated by space: DE Enter the mode: C repuated by space: F Fater the node ("Deban use 1544") tugin = elec Enter du nightour of a sepirated by space: Evrer the node: E Enter the neighbors of E sepurated by space: F Enter the mode : f Entertue wode: + Entertue neighbour off depended by apace: Enter seu starting mode for DFS: A Cillic of show pullings and what I sugar show him.

DFS Transcosal setacting from node A: ABDEFC AND BELLEVIEW FOR MIN. - Warman Ministry Low DUT. RESOLT: Therefore, the program is succensfully executed and output is neighed. Down Lite HARRY CAP DOWN " + 12" When of wealth is : MANA 1000 30 May 20.00 Compare My remarks in James 1200 The hand out your resistance is Bush Tal seleçur 3 74 mis Labor I mingus vos. The partie of color may be a nigorpi (posposki) og er garnig The right individual with the result in the result. - seekar count of the sees i cont whom there were I thought was some "Things ni basogo streeras is armaguer cos cood" stroot 🔊 – www. jake area or and in the second The many was some trans