graph = {3}

del auld-graph(u, v):

graph Setdefault(u, []) append(u)

del alfs(n, V=Set()):

if n not in V: V-odd(n); print(n, end="+"); [afs(ni, v) fon nei in graph-get(n [])]

while (e:="input("Enelge(u v) on"abone"):")) = "done"; "

add-lage("map(int, e-spit()))

efs(intligat("Start node:")))

## GOOGLE COLLABS

Edge (u v) or 'done'): 1 2

Edge (u v) or 'done'): 1 3

Edge (u v) or 'done'): 2 5

Edge (u v) or 'done'): 3 4

Edge (u v) or 'done'): done

Start node: 1

1->2->5->3->4->

## OUTPUT

Edge (UV) or 'done'): 12

Edge (UV) or 'done'): 13

Edge (UV) or 'done'): 25

Edge (UV) or 'done'): 24

Edge (UV) or 'done'): done Start mode:

lラ2ラ5→3→4→

	classmate  Date Page
10/09/2024	EXPNO.2
	EXPNANE: DEPTH FIRST SEARCH ALGORITHM
	AIME To implement depth fivist search algorithm in python.
	Alborithm:  1) Declare graph as an empty set dictionary  2) but the number of nodes as UV (Eg: 12)
	3) Repeat process till we get doné. 4) Also get starting node.
	5) The add educe suretion breates an empty
,	list from dest node and adds the node to that bike U, (V) and V, (U)
	1) None is the off fraversal whore
,	each node is chaked if in visited then adds it if not and points node
	1) Then all nonnected nodes agre visited of that node.  8) Thus proun nodeinus.
	Thus DES has buen implemented using python.