Dopth First Search. EXP NO.2 traverse a graph si explose all vertices as possible perpea back teracloing. Algorithm etep 1 - Start step 2 - Initialize an oupty stack and a list to keep terack a visited step-3 - Rush the starting node ato stack serials - While the stack is not emply
suppost sto to
- Pop the top made from 8tep 4 step 5 Paint of the papped and 84006 For each adjacent curreited Step 7 reightour of the peopled red. Push the unvisited neighborn onto the Repeat until all ecachaple no de ero visited. 12 9218 - Stop

code det des (graph, start): stack = [stoot] while = stack. popl node not in visited: point trade end visited add (nade) for neighbour in geaph [node]

ly neighbor pat in visited. stack append (neighbor) DFS Transpersal staciting from node's Output teaureal starting from node A A CF BED, Thus the DFS proger and autput is varified me case