```
DFS-iterative (G, s):
    S.push( s )              //Inserting s in stack
    mark s as visited.
    while ( S is not empty):
        //Pop a vertex from stack to visit next
        v  =  S.top( )
       S.pop( )
       //Push all the neighbours of v in stack that are not visited
      for all neighbours w of v in Graph G:
          if w is not visited :
                   S.push( w )
                  mark w as visited
```