**PRACTICAL: 10**

**AIM: : Write an Program to implement DFS algorithm.**

Code:

#DFS  algorithm

def dfs(graph, start, visited=None):

  if visited is None:

    visited = set()

  visited.add(start)

  print(start)

  for next in graph[start] - visited:

    dfs(graph, next, visited)

  return visited

graph = {'0': set(['1', '2']),

         '1': set(['0', '3','4']),

         '2': set(['0']),

         '3': set(['1']),

         '4': set(['2','3'])}

dfs(graph,'0')