Reg No : 231801128

Name : PRAMETHA S

# DFS

Program:

import networkx as nx

def solveDFS(graph , v ,visited):

visited.add(v)

print(v,end =" ")

for neighbour in graph[v]:

if neighbour not in visited :

solveDFS(graph,neighbour,visited)

g = nx.DiGraph()

g.add\_edges\_from([('A','B'),('A','C'),('C','G'),('B','D'),('B','E'),('D','F'),('A','E')])

nx.draw(g,with\_labels = True)

print("Following is DFS from (starting from vertex A)")

visited = set()

solveDFS(g,'A',visited)

OUTPUT:

Following is DFS from (starting from vertex A)

A B D F E C G