**Artificial Intelligence Lab**

**Grapg Task DFS**



**Ms. Saba Aslam**

Student Name: Abdul Salam

Roll No: 18F-0326 Section: CS(6B)

Date performed: 21/03/2021

# Task

# Code:

DFS traversing:

graphs = {  
 '1': ['2', '3'],  
 '2': ['1', '4', '5'],  
 '3': ['1', '6', '7'],  
 '4': ['2'],  
 '5': ['2'],  
 '6': ['3'],  
 '7': ['3']  
}  
  
DFSstarting = '1'  
  
stack = []  
visited = []  
  
def travers(starting,stak,visit, graph):  
 stak.append(starting)  
  
 while stak:  
 node = stak.pop()  
 visit.append(node)  
 for conectedNode in graph[node]:  
 if conectedNode not in visited and conectedNode not in stak:  
 stak.append(conectedNode)  
 print (str(node) + " -> ")  
  
  
  
travers(DFSstarting,stack,visited,graphs)

Screenshot: 