**Artificial Intelligence Lab**

**Grapg Task**



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# Task

# Code:

1. Ardency Matrix Method

::

graphs = {  
 '1' : ['3'],  
 '3' : ['1', '4', '5'],  
 '4' : ['3', '6'],  
 '5' : ['3', '6'],  
 '6' : ['4', '5']  
}  
  
BFDstarting = '1'  
  
queue = []  
visited = []  
  
def travers(starting,queu,visit, graph):  
 queu.append(starting)  
  
 while queu:  
 node = queu.pop(0)  
 visit.append(node)  
 for conectedNode in graph[node]:  
 if conectedNode not in visited and conectedNode not in queu:  
 queu.append(conectedNode)  
 print (str(node) + " -> ")  
  
  
  
travers(BFDstarting,queue,visited,graphs)

Screenshot: 