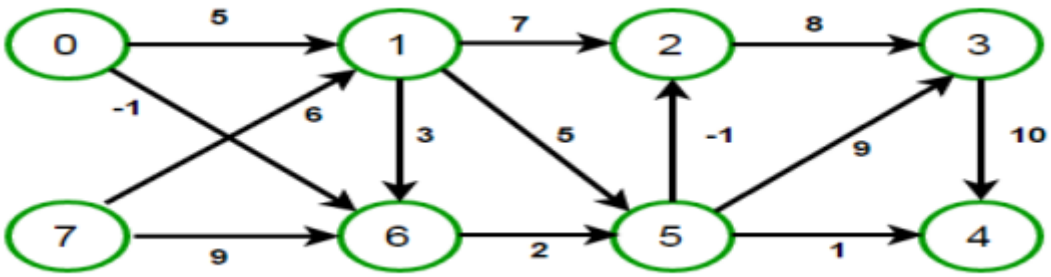
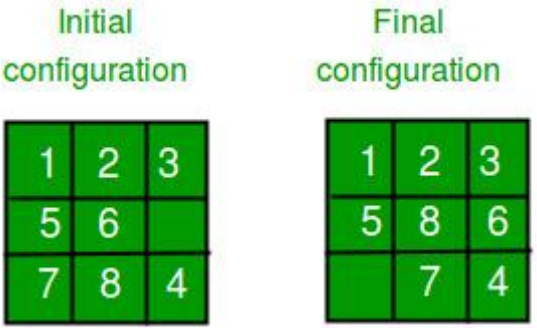
National University of Computer & Emerging Sciences, Karachi
Computer Science Department
Summer 2023, Lab Manual – 04

Course Code: AI-2002	Course: Artificial Intelligence Lab
Instructor(s):	Sania Urooj

TASKS

Task# 01:

Given a weighted digraph (directed graph), find the least-cost path from a given source to a given destination with exactly m edges. Let source = 0, destination = 3, number of edges (m) = 4. The graph has 3 routes from source 0 to destination 3 with 4 edges. 0—1—5—2—3 having cost 17,0—1—6—5—3 having cost 19, 0—6—5—2—3 having cost 8 The solution should return the least cost.i.e., 8.



Task # 02: Write a program to solve the 8-puzzle problem using the DFS and BFS search algorith