UCS411: ARTIFICIAL INTELLIGENCE

Assignment-2 (Lab Assignment)

1. Write a code in python for the 8-puzzle problem by taking the following initial and final states

Initial State				Goal State		
1	2	3		2	8	1
8		4			4	3
7	6	5		7	6	5

2. Given two jugs- a 4 litre and 3 litre capacity. Neither has any measurable markers on it. There is a pump which can be used to fill the jugs with water. Simulate the procedure in Python to get exactly 2 litre of water into 4-liter jug.

3. Write a Python program to implement Travelling Salesman Problem (TSP). Take the starting node from the user at run time.