Computer Science and Engineering Department

Artificial Intelligence (UCS-521)

Lab Assignment-2

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 liter and 3 liter 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 liter 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.									
	25 4 30 35									