Assignment-2 (CSE356)

1. What is back tracking? Where Back tracking is used to solve the problem.

2. What is the difference between 0/1 Knapsack problem and fractional Knapsack problem?

3. Write down the Bellman Ford Algorithm to solve single source shortest path problem. Write its time complexity.

4. How 4-Queen's problem can be solved using back tracking and explain with an example

5. Define Greedy knapsack. Find the optimal solution of the Knapsack instance n= 7, M=15, (p1, p2, ……p7) = (10,5,15,7,6,18,3) and (w1,w2,. ...w7)=(2,3,5,7,1,4,1).