56) Travelling Talesmen Problem using Branch & Bound & The objective of the TSP is to find a Route of such that a salesperson wrists all the cities and returns back to the same align of from whele he started the tone with the I til is a minimisation forblens, hele we are supposed to find the loves bound -> The Navel bound (W) is denoted as 5 S-is the summation of I closest cities of N= 1+3+3+6+7+2+3+4+2+3 2 28 214

A ssimptions a ) a is the starting 2) City v is visted W219 - inal Tour i- a = 10-d-e-Cost > 3+7+2+2+1=16

using Branch and Bound 52) Assignment Problem Branch and Bound Backtracking 1) State Space True 1) State Space Tree 2) Flastle Solutions yoptimal Solutions 3) DFS Traversal 3)DFS and BFS 4) No Bounding Function 4) Bounding Function

Assignment Problem The objective of the assignment broken is to assignment took that the assignment is as small as Losible. - A originant Jaskem is a love bound problem. - Lover Bound is calculated as the Summation of the lesser / least values in each son W=2+3+1+4=10 9 2 7 8 6 4 3 7 7 5 8 1 8 7 6 9.4 Start -10 200 7+3+1+4= 2+3+1+4 7+4-15+4 8+3+1+6 PI-JI 11-52 P1-53 P1-54 W217 W210 W=20 10= 18 2+6+1+4 2+3+5+9 2+7+1+6 P2-51 4203 P2-J4 14 W=13 16 2+1+1+4 276+8+6 13-53 > P4-04

:- P1-J2 22 P2-51 = 6 P3-53 =1 f4-54 = 4 Fotal cost = 13