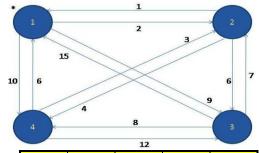
TRAVELLING SALESMAN PROBLEM USING DYNAMIC PROGRAMMING METHOD



		1*	2	3	4
COST MATRIX	1*	0	2	9	10
	2	1	0	6	4
	3	15	7	0	8
	4	6	3	12	0

HON	NE NODE	{1}	TRAVERS	SING NODES	{2,3,4}			
POWER SET OF TRAVERSING NODES								
{φ, (2), (3), (4), (2,3), (3,4), (4,2), (2,3,4)}								
ANSWER								
PATH	1->3->4->2->	>1		LENGTH	21			
TI	ME COMPLEXI	TY	$2^n n^2$					

	2	3	4	1 (HOME)	
φ	1	15	6	0	
{2}	0	c32+c21=7+1=8	c42+c21=3+1=4	0	
{3}	c23+c31=6+15=21	0	c43+c31=12+15=27	0	
{4}	c24+c41=4+6=10	c34+c41=8+6=14	0	0	
{2,3}		0	c42+g(2,{3})=3+21=24		
	0		c43+g(3,{2})=12+8=20	0	
			min = 20		
	c23+g(3,{4})=6+14=20		0	0	
{3,4}	c24+g(4,{3})=4+27=31	0			
	min = 20				
{4,2}		c34+g(4,{2})=8+4=12		0	
	0	c32+g(2,{4})=7+10=17	0		
		min = 12			
{2,3,4}		0	0	c12+g(2,{3,4})=2+20=22	
	0			c13+g(3,{2,4})=9+12=21	
	0			c14+g(4,{2,3})=10+20=30	
				min = 21	