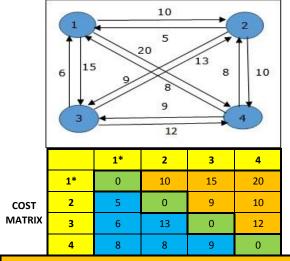
TRAVELLING SALESMAN PROBLEM USING DYNAMIC PROGRAMMING METHOD



HON	NE NODE	{1}	TRAVE	RSING 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->2->4->3	3->1		LENGTH	35			
TI	ME COMPLE	XITY	$2^n n^2$					

	2	3	4	1 (HOME)
φ	5	6	8	0
{2}	0	c32+c21=13+5=18	c42+c21=8+5=13	0
{3}	c23+c31=9+6=15	0	c43+c31=9+6=15	0
{4}	c24+c41=10+8=18	c34+c41=12+8=20	0	0
{2,3}	0	0	c42+g(2,{3})=8+15=23	0
			c43+g(3,{2})=9+18=27	
			min = 23	
	c23+g(3,{4})=9+20=29		0	0
	c24+g(4,{3})=10+15=25	0		
	min = 25			
		c34+g(4,{2})=12+13=25	0	0
{4,2}		c32+g(2,{4})=13+18=31		
		min = 25		
{2,3,4}	0	0	0	c12+g(2,{3,4})=10+25=35
				c13+g(3,{2,4})=15+25=40
		O O		c14+g(4,{2,3})=20+23=43
				min = 35