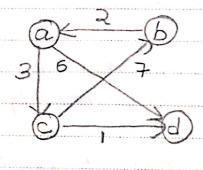
PAGE NO.:

## Floyd's algorithm:



D(0)	<sub>r</sub> a	Ь	C	d -
a	0	O <sub>2</sub>	3	8
6	12	0	Os	00
c/	13	<b>7</b>		/
а 6 С	6	6	B	0

$$D = \begin{cases} a & b & c & d \\ a & 0 & 3 & 6 \\ 2 & 0 & 5 & 6 \\ c & 6 & 7 & 0 & 1 \\ d & 6 & 6 & 9 & 0 \end{cases}$$

$$D^{(a)} = a b c d$$
 $a = a b c d$ 
 $b = a b c d$ 
 $a b = a b c d$ 

$$D^{(3)} = a + b + c + d$$

$$a = 0 + 0 + 3 + 4$$

$$b = 2 + 0 + 5 + 6$$

$$c = 9 + 7 + 0 + 1$$

$$d = 6 + 16 + 9 + 0$$

$$D^{(4)} = a + b + c + d$$

$$a = 0 + 10 + 3 + 4$$

$$b = 2 + 0 + 5 + 6$$

$$c = 7 + 7 + 0 + 1$$

$$d = 6 + 16 + 9 + 0$$

Presents the all pain shortest path