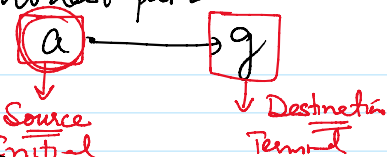
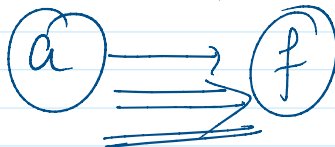


Shortest path

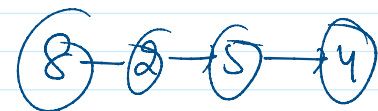
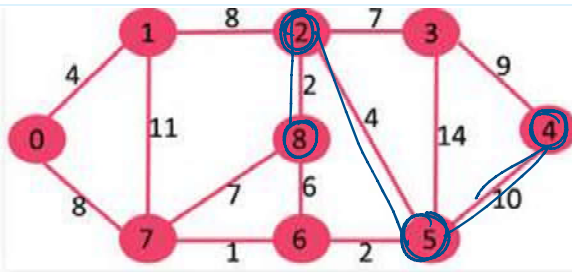


Source Set	a	b	c	d	e	f	g
{a}	-	5(a)	3(a)	∞	∞	∞	∞
{a,c}	-	5(a)	-	8(a,c)	∞	9(a,c)	∞
{a,c,b}	-	-	-	8(a,c)	7(a,b)	9(a,c)	∞
{a,c,b,e}	-	-	-	8(a,c)	-	9(a,c)	12(a,b,e)
{a,c,b,e,d}	-	-	-	-	-	9(a,c)	12(a,b,e)
{a,c,b,e,d,f}	-	-	-	-	-	9(a,c)	12(a,b,e)

\therefore Shortest path b/w a & g is $a \rightarrow b \rightarrow c \rightarrow f \rightarrow g$
 length of path = 12



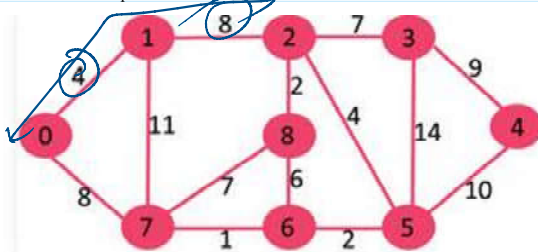
What will be the length of shortest path from 8 to 4



$$2 + 4 + 10 = 16$$

- (a) 13 (b) 22 (c) 16 (d) 12

What will be the shortest path from 0 to 2



- (a) 4 (b) 8 (c) 12 (d) Can't determine.