

①

In order :

$$A * C / 5 * 2 + D * 4 \% 5$$

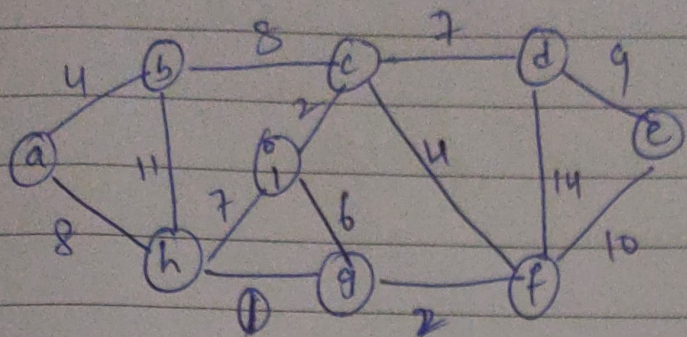
Pre order :

$$+ * - A * / C 5 2 \% * D 4 5$$

post order

$$A C 5 / * 2 * + D 4 * 5 \% +$$

②



ab bc cd de ef fg gh hi ci ig cf df
 4 8 7 9 10 2 1 11 7 2 6 4 14

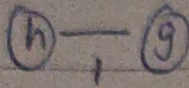
weight	source	Destination
1	h	g
2	g	c
2	g	f
4	a	b
4	c	f
6	i	g
7	c	d
7	i	h
8	a	h
8	b	c
9	d	e
10	f	e
11	b	h
14	d	f

→ Graph contains 9 vertices & 14 edges
 → mst → $9 - 1 = 8$ edges
 $(V - 1)$

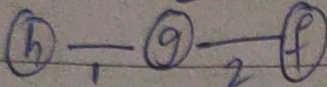
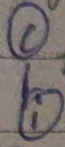
Step - 1 : Picking edge $h-g$, No cycle is formed include it.



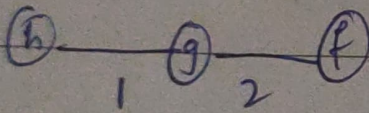
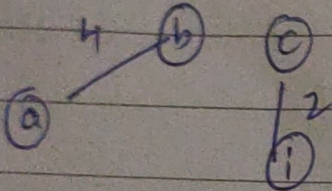
Step - 2 : Add edge $i-c$, No cycle formed.



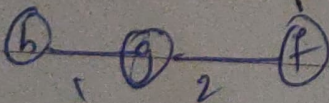
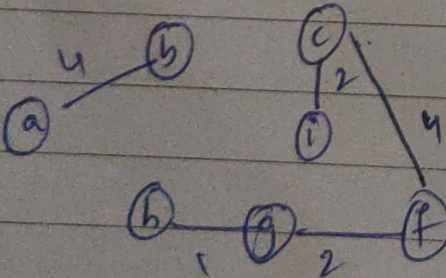
Step 3 : Pick edge $g-f$



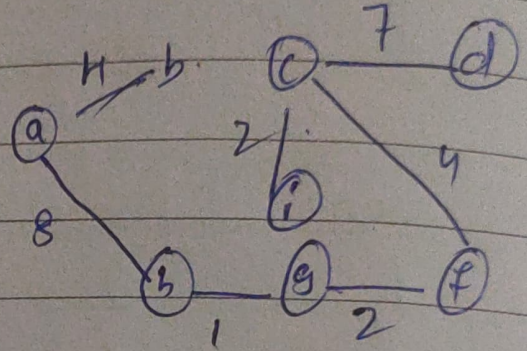
Step 4 : pick $a-b$ edge



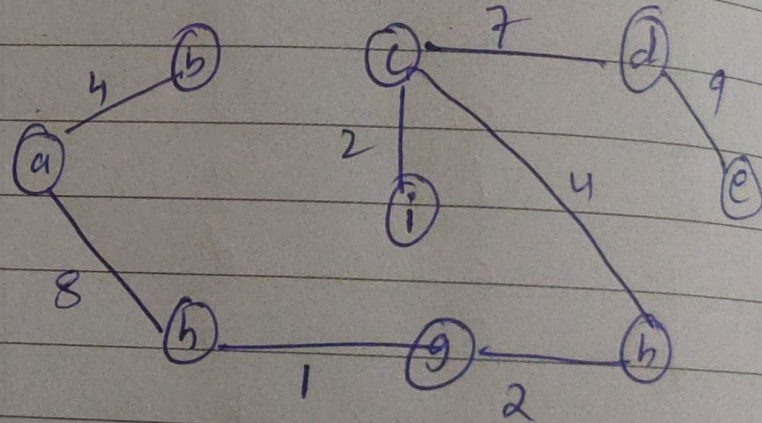
Step 5 : pick edge $i-f$



Step 7 pick edge $a-b$



Step - 8 : Add $d-e$



→ Since number of edges includes in MST equals to $(V-1)$, so algorithm stops.

Step 6 Pick edge $c-d$.

