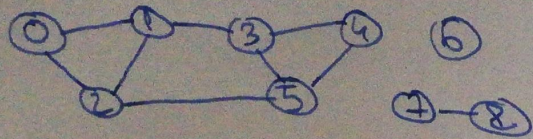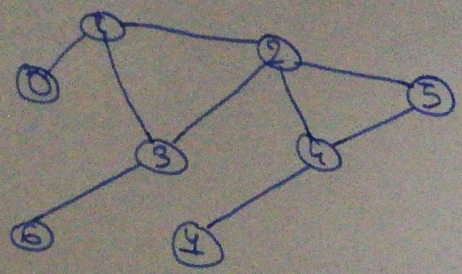# Lab3| Find the connected components of an undirected graph using a depth-first traversal of the graph.

Vertex	New vertex	List	Total	Visited	Components
				{ }	
0		←[0]←	{0}		
1	1		{0,1}		
2	2	←[1]←	{0,1,2}		
		←[2]←			
3	3	←[3]←	{0,1,2,3}		
4	4	←[4]←	{0,1,2,3,4}		
5	5	←[5]←	{0,1,2,3,4,5}		
				{0,1,2,3,4,5}	
6		←[6]←	{6}	{0,1,2,3,4,5,6}	⑥
7	8	←[7]←	{7}		
8		←[8]←	{7,8}	{0,1,2,3,4,5,6,7,8}	⑦-⑧

Lab 3 | Find the connected components of an undirected graph using a depth-first traversal of the graph.

Vertex	New vertex	List	Total	Visited	Component
				{ }	
0	1	← [0] ←	{0}		
1	2	← [1] ←	{0,1}		
2	3	← [2] ←	{0,1,2}		
3		← [3] ←	{0,1,2,3}		
4	4	← [4] ←	{0,1,2,3,4}		
5	5	← [5] ←	{0,1,2,3,4,5}		
6	6	← [6] ←	{0,1,2,3,4,5,6}		
7	7	← [7] ←	{0,1,2,3,4,5,6,7}	{0,1,2,3,4,5,6,7}	