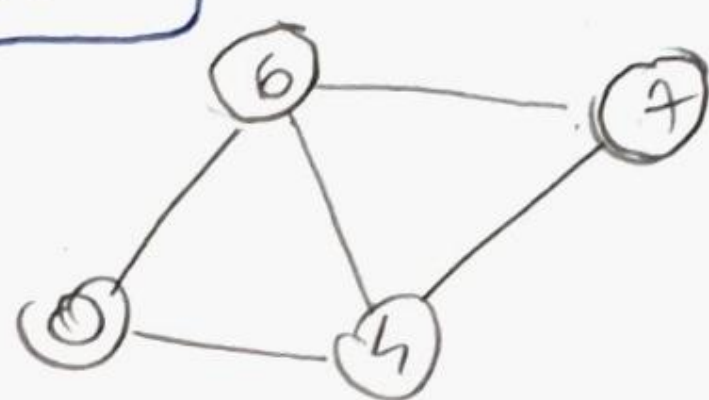
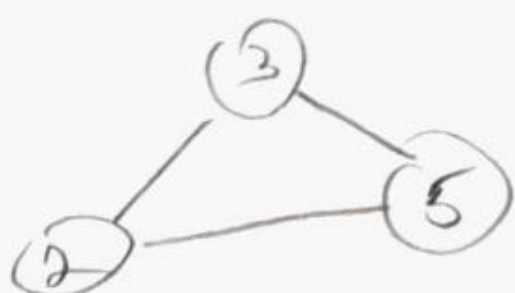


Lab 2 Find the connected components of an undirected graph using DFS.



①



Boend - dictionary

key	value
0	- [4,6]
1	- []
2	- [3,5]
3	- [2,5]
4	- [0,6,7]
5	- [2,3]
6	- [0,4,7]
7	- [4,6]

	x	temp	visited	connected comp
		[]	{ }	
DFS(0)	0	[0,7]	{0}	
	4	[0,4]	{0,4}	
	6	[0,4,6]	{0,4,6}	
	7	[0,4,6,7]	{0,4,6,7}	
		[]	{0,4,6,7}	
DFS(1)	1	[1]	{0,4,6,7,1}	①
		[]	{0,4,6,7,1}	
DFS(2)	2	[2]	{0,4,6,7,1,2}	
	3	[2,3]	{0,4,6,7,1,2,3}	
	5	[2,3,5]	{0,4,6,7,1,2,3,5}	

DFS for a graph with one isolated vertex

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group 916