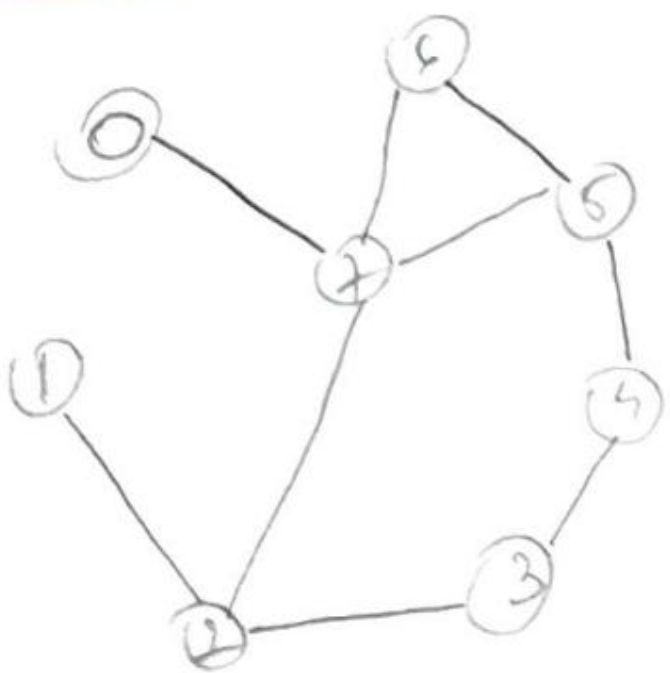


Lab 2 Find the connected components of an undirected graph using DFS



Bound-dictionary

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

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

DFS for a graph with one connected component

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