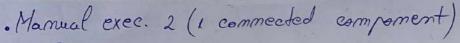
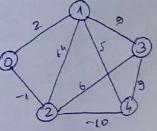
Find the commected components of a graph (undirected) using DFS. Manual exec. 1 (3 commected components with 1 isolated mode) bisited Com. component Stack top o vis[0]=Tome 20,69 eis [6] = True top 60 {0,6,7{ bis {\*}= True top: [7]6]0 Neighbours dictionary Key Value tep: IT 219 waster=True Key top: [3/1] {1,34 lip [3] = True dfs(1) {1,3,49 vio [4] = True top: 15/3/11 [3,4,5] tap: 15/4/3/1 31,3,4,5 (lis [5]= Frue 2 call top: 2 2 bis [2]=True 224 dfs(2) 2 [1,3,4] 5 [0,7]

6

[6]





Neighbours-dict. Key balue

	0	-	[1,2]
	1	-	[0,1,2,3,4]
-	2	-	[0,1,3,4]
	3	-	[1,2,4]
	3	-	[1,2,3]

3/19/27	*	y	Stack	acc	wisited	Con-comp.
call	0	1	top: 0	209	vio [o]=True	
dfs(0)	1	2	top: 10		vio[1]=Three	[1]
0	2	,	top: 2110	920	vis[2]=True	1 / 1
10.0	,		tep: [3/2/1/0]		(1013) = True	
	5		top: 14/3/2/1/d	20,1,2,3,45	vio[4]=True	•
1.2						