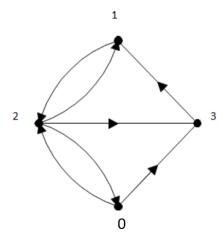
## **TUGAS PRAKTIKUM STRUKDAT PERTEMUAN 11**

Jumat, 12 Mei 2023

1. Notasikan graph berikut dalam bentuk Adjacency list, edge list, dan adjacency matriks.

a.



Jawab:

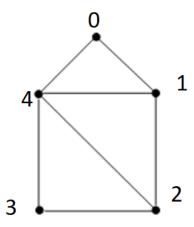
Adjacency list

•	•		
0	2	3	
1	2	3	
2	0	1	3
3	0	1	2

- Edge list [ (0,3),(0,2),(2,3),(2,0),(2,1),(1,2),(3,1) ]
- Adjacency matrix

,					
	0	1	2	3	
0	0	0	1	1	
1	0	0	1	1	
2	1	1	0	1	
3	1	1	0	0	

b.



Jawab:

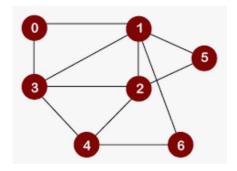
Adjacency list

rajacericy list				
0	1	4		
1	0	2	4	
2	1	3	4	
3	2	4		
4	0	1	2	3

- Edge list [ (0,1),(0,4),(1,2),(1,4),(2,1),(2,3),(2,4),(3,2),(3,4),(4,0),(4,1),(4,2),(4,3) ]
- Adjacency matrix

	0	1	2	3	4
0	0	1	0	0	1
1	1	0	1	0	1
2	0	1	0	1	1
3	0	0	1	0	1
4	1	1	1	1	0

2. Diberikan graph berikut, telusurilah setiap verteknya menggunakan algoritma: (a) DFS dan (b) BFS (starting vertexnya vertex 0). Sebagai catatan, jika pada satu titik ada dua opsi yang setara maka dahulukanlah penelusuran vertex dengan no ID yang lebih kecil.



Jawab:

DFS

• Code

Output

Jawab:

**BFS** 

Code

Output

```
* thuy > 0 th, intam, terperak

1  #Wildon Holik

2  #Jo403221025

3

4  graph = {
5  | '0' : set (['3', '1']),
6  | '1' : set (['0', '5', '2', '3']),
7  | '2' : set (['3', '1', '5', '4']),
8  | '3' : set (['0', '2', '4', '1']),
9  | '4' : set (['0', '2', '4', '1']),
10  | '5' : set (['2', '1']),
11  | '5' : set (['1', '1'])

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