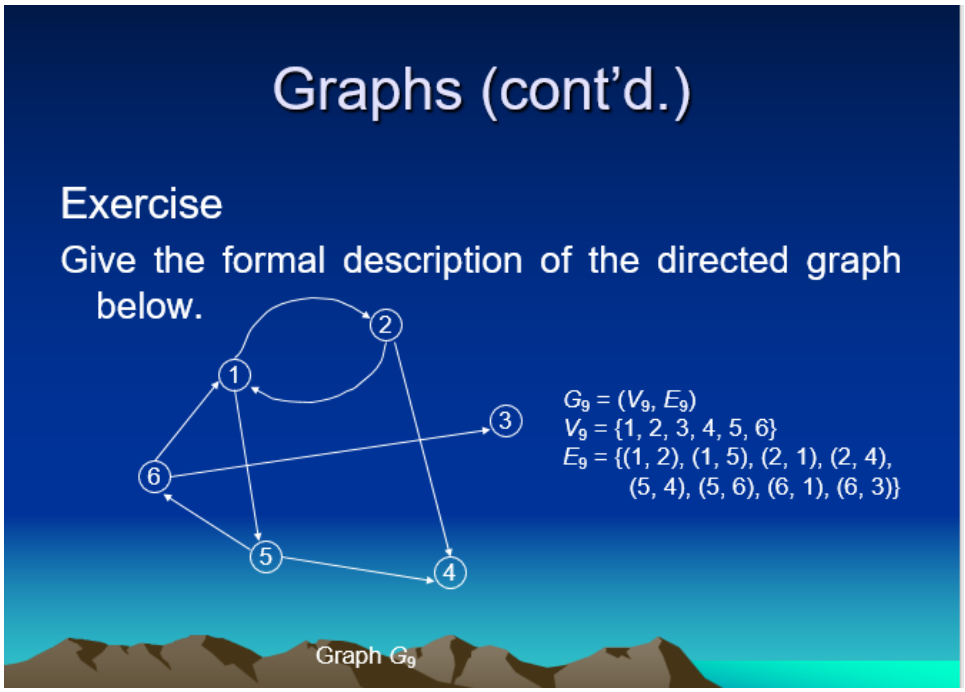


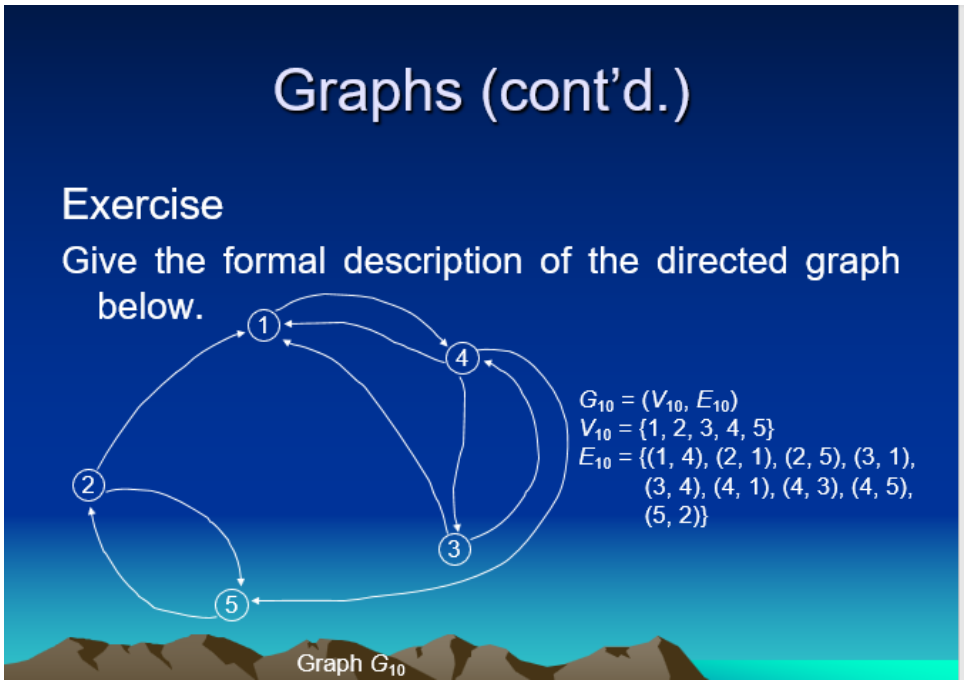
Path	Length
{1,2}	1
{1,2,4}	2
{1,5,6}	2
{2,1}	1
{2,4}	1
{5,4}	1
{5,6}	1
{5,6,1}	2
{5,6,1,2}	3
{5,6,1,2,4}	4
{6,3}	1
{6,1,2}	2
{6,1,2,4}	3

Simple Path: {1,2,4}, {1,5,6}, {2,1}, {2,4}, {5,4}, {5,6,1,2,4}, {6,3}, {6,1,2,4}
Simple Cycle: {2,1,5,6,1,2}, {1,5,6,1}, {1,2,1}, {2,1,2}

	Indegree	Outdegree
Node 1	2	2
Node 2	1	2
Node 3	1	0
Node 4	2	0
Node 5	1	2
Node 6	1	2

	Vertices Adjacent To	Vertices Adjacent From
Node 1	2 and 6	2 and 5
Node 2	1	1 and 4
Node 3	6	None
Node 4	2 and 5	None
Node 5	1	4 and 6
Node 6	5	1 and 3

Edges Incident To	
Node 1	(1,2),(2,1),(1,5),(6,1)
Node 2	(1,2),(2,1),(2,4)
Node 3	(6,3)
Node 4	(2,4),(5,4)
Node 5	(1,5),(5,4),(5,6)
Node 6	(6,1), (6,3), (6,5)



G_{10} = (V_{10}, E_{10})
V_{10} = {1,2,3,4,5,6}
E_{10} = {(1,4), (2,1), (2,5), (3,1), (3,4), (4,1), (4,3), (4,5), (5,2)}

Path	Length
{1,4}	1
{1,4,3}	2
{1,4,5}	2
{1,4,5,2}	3
{2,5}	1
{2,1}	1
{2,1,4}	2
{2,1,4,3}	3
{2,1,4,5}	3
{3,1}	1
{3,1,4}	2
{3,1,4,5}	3
{3,1,4,5,2}	4
{3,4,1}	2
{4,1}	1
{4,3}	1
{4,3,1}	2
{4,5}	1
{4,5,2}	2
{4,5,2,1}	3

{5,2}	1
{5,2,1}	2
{5,2,1,4}	3
{5,2,1,4,3}	4

Simple Path: {1,4,5,2}, {2,1,4,3}, {2,1,4,5}, {3,1,4,5,2}, {1,4,3}, {1,4,5}, {3,4,1}, {4,1}, {4,3,1}

Simple Cycle: {1,4,1}, {1,4,3,1}, 1,4,5,2,1}, {2,1,4,5,2}, {2,5,2}, {3,1,4,3}, {4,3,1,4}, {4,5,2,1,4}, {5,2,5}, {5,2,1,4,5}

	Indegree	Outdegree
Node 1	3	1
Node 2	1	2
Node 3	1	2
Node 4	2	1
Node 5	2	2

	Vertices Adjacent To	Vertices Adjacent From
Node 1	2,3,4	4
Node 2	5	1 and 5
Node 3	4	1 and 4
Node 4	1 and 3	1,3,5
Node 5	2 and 4	2

Edges Incident To	
Node 1	(1,4), (2,1), (3,1), (4,1)
Node 2	(2,1), (2,5), (5,2)
Node 3	(3,1), (3,4), (4,3)
Node 4	(4,1), (4,3), (4,5), (1,4), (3,4)
Node 5	(5,2), (2,5), (4,5)