Do you assume acyclic graph.

yes

Slide 8. Does it show direction?

No I used undirected graph. My program does not show direction. It just shows what type of path it has with connected nodes. The program finds the unique paths and saves the identified path in the "table.txt" file

table.txt ×				
1	p1	HT	X2X1X3	
2	p1	HT	X2X1X4	
3	p1	HT	X2X1X5	
4	p1	TT	X3X1X4	
5	p1	TT	X3X1X5	
6	p1	TT	X4X1X5	
7	p2	HT	X1X2X4	
8	p2	НН	X1X2X5	
9	p2	TH	X4X2X5	
10	р3	HT	X1X3X5	
11	p4	НН	X1X4X2	
12	p5	НН	X1X5X2	
13	p5	HH	X1X5X3	
14	p5	HH	X2X5X3	
15				

Pros.txt what is it?

I mention it on slide 9. It is for the position for each node. Axises in a graph. And matplotlib to draw the image

A path in the direction or undirected graph?

In slide 3, I mention I used undirected graph. So the paths are undirected.