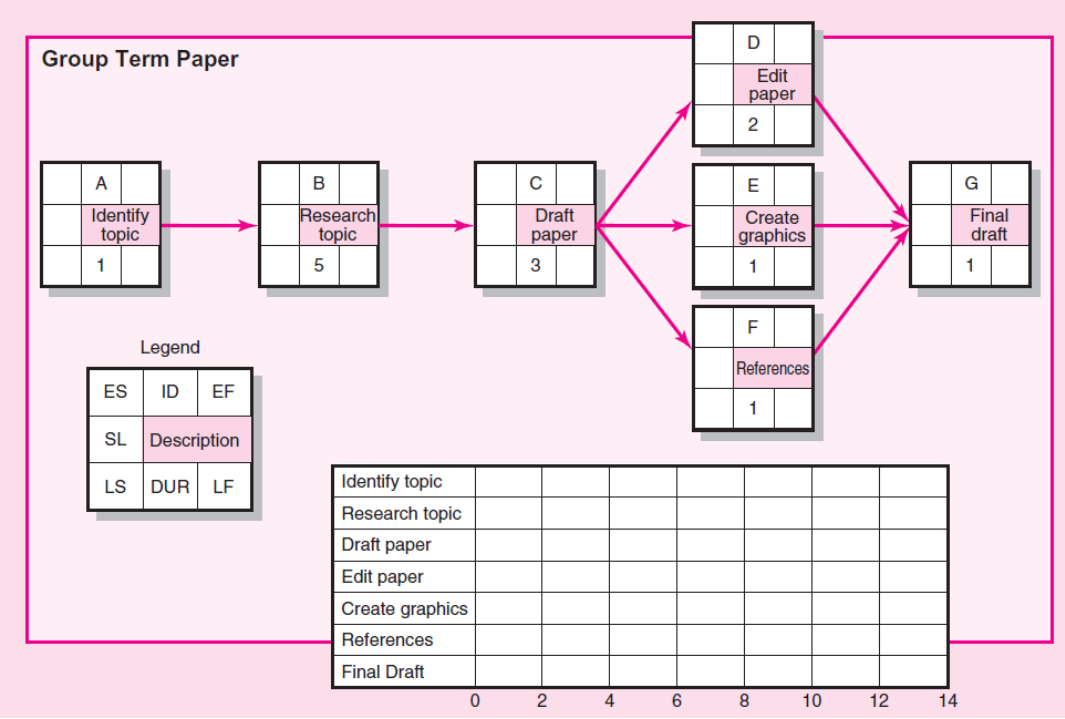
Chapter 6 Problems

1. A large eastern city is requesting federal funding for a park-and-ride project. One of the requirements in the request application is a network plan for the design phase of the project. Catherine Walker, the chief engineer, wants you to develop a project network plan to meet this requirement. She has gathered the activity time estimates and their dependencies shown here. Show your project network with the activity early, late, and slack times. Mark the critical path.

ID	Description	Predecessor	Time
A	Survey	None	5
B	Soils report	A	20
C	Traffic design	A	30
D	Lot layout	A	5
E	Approve design	B, C, D	80
F	Illumination	E	15
G	Drainage	E	30
H	Landscape	E	25
I	Signing	E	20
J	Bid proposal	F, G, H, I	10

2. You are completing a group term paper. Given the project network that follows, complete the forward and backward pass, compute activity slack, and identify the critical path. Use this information to create a Gantt chart for the project. Be sure to show slack for noncritical activities.