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Project Management Assignment

1. Develop a network diagram for the project specified below. (50 %)
2. Identify the Critical Activities and the total duration of the project. (35%)
3. Justify which activity would you crash based on some rationale (15%)

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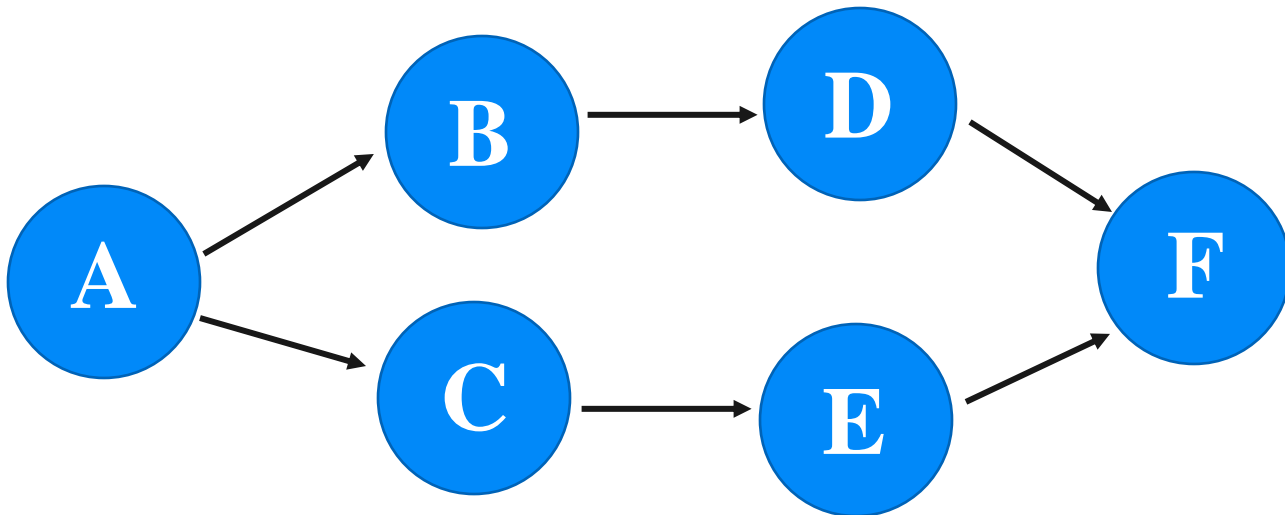
Activities	predecessor	Duration (days)
A	-	5
B	A	4
C	A	5
D	B	6
E	C	3
F	D,E	4

Solution for question 1

Network Diagram

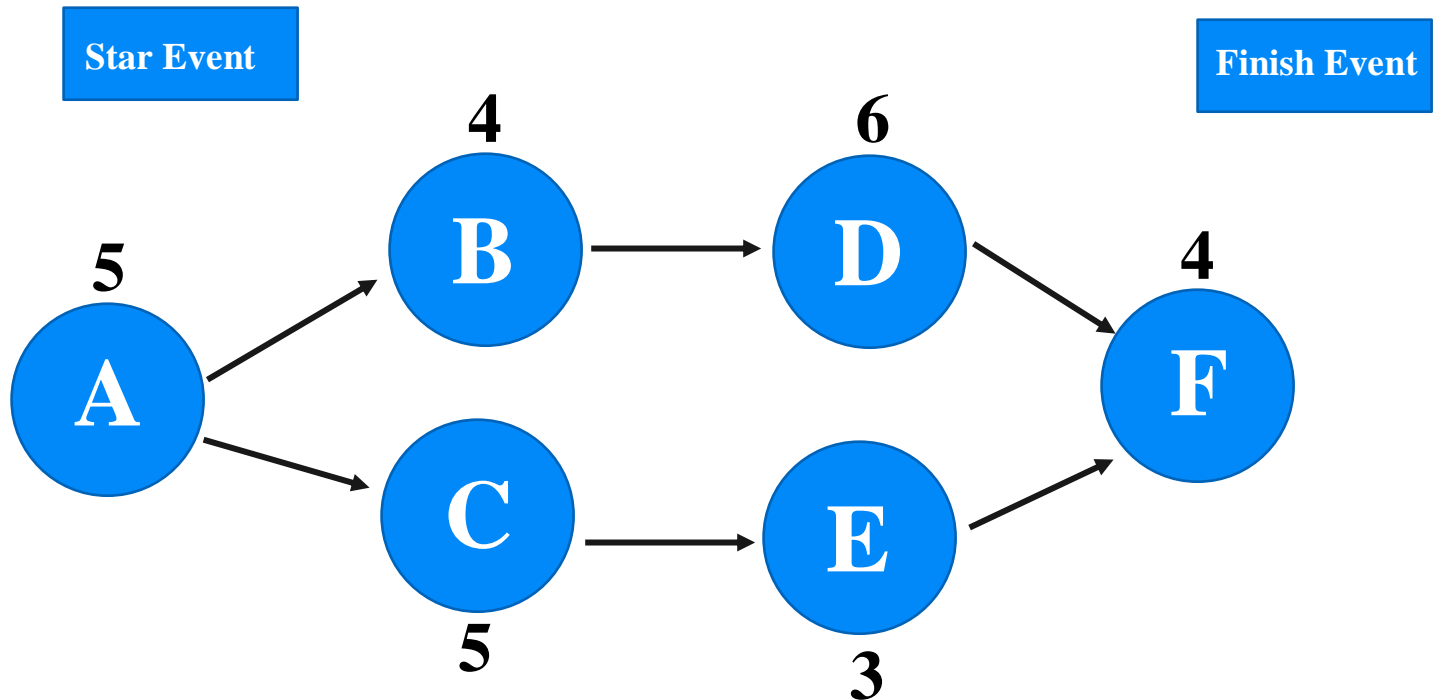
Star Event

Finish Event



Solution for question 2

Critical Activities and the total duration



Path I

$$A+B+D+F=19 \text{ Longest process}$$

Path II

$$A+C+E+F=17$$

Path I is the critical path. The critical activities are A, B, D and F (longest duration)

Solution for question 3

1. It depends on the Activity that takes less cost than the others, thus by increase or elevate the cost the project will be crashed in a shorter time than scheduled.
2. To speed up a project's timeline by adding additional resources without changing the scope of the project.