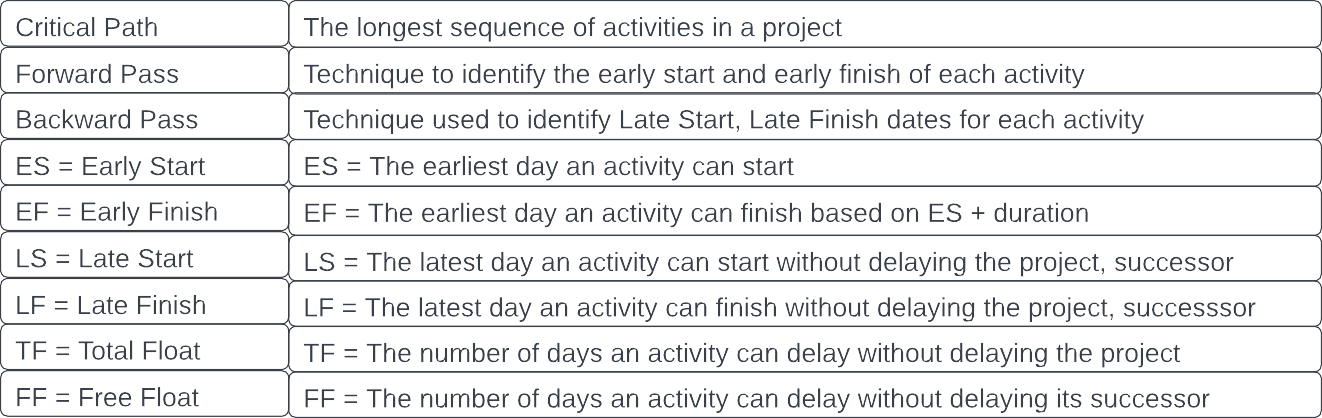
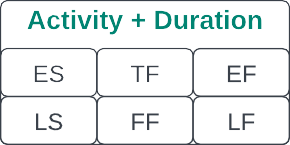
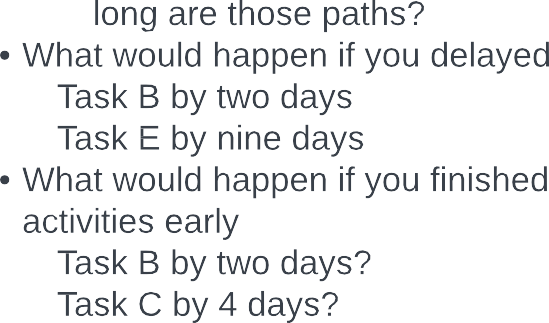
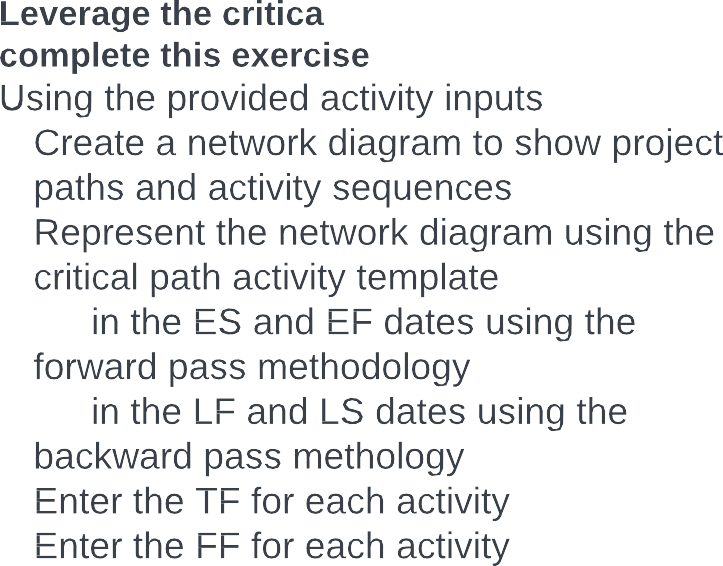
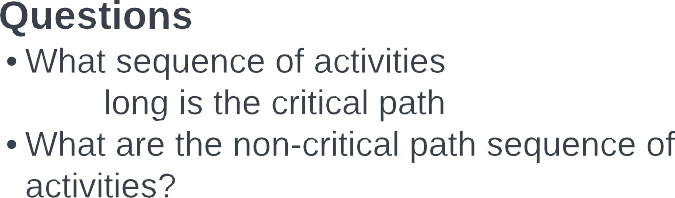
**PRIYANKA SENGUPTA** 











Q1 : Create a Network Diagram to show project Paths and activity sequences.

A diagram of a flowchart

Description automatically generated

Q2 Represent the Diagram using Critical Path Template

A diagram of a computer flowchart

Description automatically generated

Q3. Fill in ES and EF dates using Forward Pass Methodology

A diagram of a computer

Description automatically generated

Q4. Fill in the LS and LF dates using Backward Pass Methodology.

A diagram of a computer

Description automatically generated

Q5. Fill in the TF for all activities.

A diagram of a computer

Description automatically generated

Q6. Fill in the FF for all activities.

A diagram of a computer code

Description automatically generated

Q1) What Sequence of activities is the critical Path?

Ans: **Activity A B D G H**

Q2) How long is the Critical Path?

Ans : **A= 3 , B =4, D =5, G=4 , H= 3**

**3+4+5+4 =** **19**

Q3) What are the non-Critical path sequence of activities?

Ans : **A C E G H**

**A C F H**

Q4) How long are those paths?

Ans : **A C E G H : 3 + 2 + 1 + 4 + 3 = 13**

**A C F H : 3 + 2+ 2 + 3 = 10**

**Q5) What would happen if you delayed.**

**Task B by 2 days**

Ans: **As Activity B falls under the Critical path, any delay in the activity could cause the overall project delay. If the activity B is delayed by 2 days then the overall Critical Path Duration would increase by 2 days i.e 19 + 2 = 21**

**Task E by 9 days**

Ans : **Activity E doesn’t fall under critical path; however, it is a predecessor of an activity which falls under critical path. The Free Float for activity is 6 days i.e., the task E could only be delayed by 6 days, If the Task E is delayed by 9 days, the 9-6 = 3 days; the Critical path would be delayed by 3 days and the total Critical path would be 19 + 3 = 22**

**Q6) What would happen if you finished activities early?**

**Task B by 2 days**

**Ans: Task B’s EF is 7 days so if it’s within 7 days it won’t impact the project at any level. If Task B is finished early by 2 days, then the duration of critical path would reduce to 19 – 2 = 17 days.**

**Task C by 4 days**

**Ans:** **Task C ‘s whole duration is 2 only so it is not possible to finish it early by 4 days.**