# Practice document: Network Diagram and find critical path

## Scenario

The below activities are to be completed in one of the projects according to their dependencies.

**Task:** Draw a network diagram and identify the critical path, and find a float for each activity. This can be completed in this document, or any method you prefer. This is for your own learning, and will not be submitted for review.

Use the following to complete the task:

* Activities are labelled alphabetically and their duration is mentioned in days. The activity dependencies are denoted by predecessor relationships.
* You may use a circular node or a rectangular node to denote the activities in the network diagram.
* Establish the relationship between activities by referencing the predecessor given in the table.
* Map the activity duration across each activity node and identify the different network paths.
* Sum the activity duration across each network path.
* The path with the longest duration denotes the critical path and the duration indicates the project’s overall duration estimate.

| **Activities** | **Activity Duration** | **Predecessor** |
| --- | --- | --- |
| A | 3 days | - |
| B | 4 days | A |
| C | 2 days | A |
| D | 3 days | B, C |
| E | 1 day | C |
| F | 2 days | D,E |