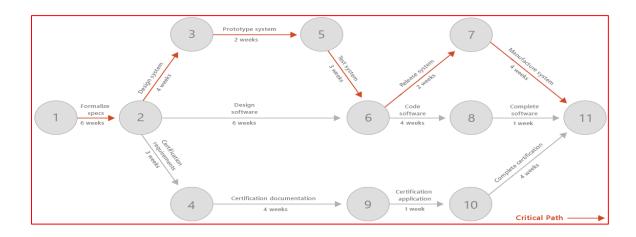
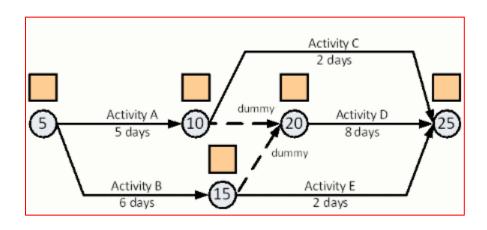
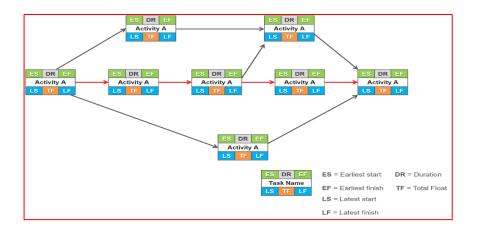
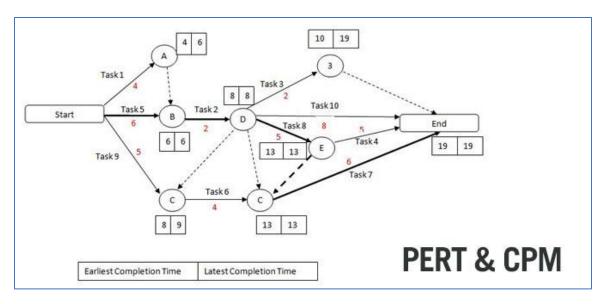
Project Management Pert









This is the default project to be insert in code

General

- Build a Pert or CPM system (A project management system) with Python OOP, demonstrating the essential facts and functionalities of managing project.
- You can add any methods helper to the project.
- The homework is for two students. Deliver it only once to the modle site (One student record).
- The solution must be on Python file or files(.py).
- Give meaning names to the variable.
- Remarks every before any method, what going on in the method.
- Logger is a must for each method. All logs will be written to a file.
 And eventually read the file for Python cortex (for convenience).
- Unit Test is not mandatory (no points) but nice to have.

- 1. Initializes a project object if no dictionary or None is given, an empty dictionary will be used
- 2. Build method that add activity to the project, Activity must have at least two fields: name, duration.
- 3. Build method for removing activity from the project
- 4. Build method that validate the project, this method reveals a circle's activities in the project, and display them (You can find the algorithm in the internet).
- 5. Build method to find isolate activities. An activity without following or ascending another activity.
- 6. Overwrite __str__ method for any project's class, with clear detail.
- 7. Build method that find critical path of the project (Showing the edges of the critical pass with their length (20 point).
- 8. Show slack's time for all activities in descending order. Don't show the critical activities in the list (By definition, critical path has activities with a zero-slack time)
- 9. Add property that show what is the duration of the project.