

[illegible]

Based on the activity table above, you are responsible to develop a project plan and to manage the project schedule throughout the project life by performing these tasks below:

1. Estimate the duration for each activity in the table (fill in the table) by rolling a dice and multiply the number by 3 (If a dice shows number 5 then the estimation of duration is 15 person/days). Online dice at URL:
<https://www.random.org/dice/>
2. Using the data in (1), construct an activity network chart and answer the following questions:
 - How many paths in the project activity network?
 - Which path is the critical path?
 - What is the slack time of each path?
3. Create a computer based project plan using Microsoft Project with the data in above table. Set the project starting date as March 08, 2020. Your project plan should include only two milestones (Start and Finish). Generate an activity network chart and compare it with your results in (2). Does your project plan show the same results as your analysis in (2)?
4. Save the project plan you just created in task3 as the baseline project plan (save as: ProjectName-T0). The baseline project plan is an important document at the project planning phase and it is essential for project monitor and control throughout the project execution phase.
5. During project execution phase, perform the following things using Microsoft Project for task T1:
 - Record the actual duration of the task (T1) by rolling a dice and multiply the number by 3 and mark the task as complete (100%).
 - With the new data, generate an updated activity network chart.
 - Perform a new round analysis about the impact to the current status of the project. What are the projected completion dates for remaining tasks? Can project complete on time? Is there a new critical path merged due to the new data and what it is? What are the new slack times for all the paths?
 - Save a snapshot of the project plan as Project-Name-T1.
 - Repeat the above activities for the remaining task (T2 to T6) and save the snapshot of each project plan as Project_Name-Tx, where the Tx is the task ID at each run.

Lab2 Deliverable:

- (1) A lab report in Microsoft Word document that contains your results for Part A and Part B. The lab report should include a short description of your software project and your WBS chart for Part A. It should include a baseline project activity network chart and each project activity network chart after the completion of each task. Provide a step by step discussion about the impact to the project during the execution.
- (2) All saved Microsoft Project files from baseline project plan (ProjectName-T0) to the last step (ProjectName-T6).
- (3) Any presentation materials used for the class discussions