**Q6.**

Earliest Finish Date:                09/22/2015
Completion Date for Project 1:       8/20/2015
Completion Date for Project 2:       09/22/2015
Difference between the project 1 and project 2 deadline is:  33 days

**Q7.**

As per my observation, completing the $2^{nd}$ project two weeks after the first assignment is not feasible. Even after assigning the resource efficiently, the difference in the number of days is 33.

There are multiple difference causing this difference:

1. The first project starts 45 days before the beginning of $2^{nd}$ project
2. The first project is given preference over $2^{nd}$ project as majority of the resources have been allocated to the first project.

Although it cannot be said that it can be applied to all the cases, there might be a chance that a different resource allocation may lead to less number of days.

|            | **Project – 1** | **Project - 2** |
|------------|-----------------|-----------------|
| **Start Date** | 02/06/2015 | 03/23/2015 |
| **End Date** | 08/20/2015 | 09/22/2015 |
| **Duration** | 139.39days | 131.65days |

**Q9.**

**Comments on Start and Completion Date:**

1. The first project is finished first as it starts 45 days earlier and majority of the resources are allocated to that project only.
2. Start and completion date is totally dependent on the way resources are allocated to the projects.

**Resource Allocation comments:**

While allocating resources in project 2, there were constraints as many of the resources were pre-allocated to (project 1) at that time so we have to reschedule to the available time slot.
All the resources available have been allocated to project 2 thus obtaining maximum efficiency.