**SOFTWARE PROJECT MANAGEMENT NIKHIL ARORA – A20339503**

**ASSIGNMENT NO: 1 FILE NAME – SPM-ASSIGNMENT1.mpp**

**Question-4**

ASSUMPTIONS AND CONSTRAINTS

1. I have added **WBS** and **WORK** column for better understanding of the user.
2. I have **assumed** that all the **details provided** to us in the given assignment is defined in a **serial fashion** as a result there is simplicity in the work and understanding the whole project comes out to be very easy.
3. I have assumed that system integration phase will start only when coding and unit test phase is over and for the system integration phase to start there is a prerequisite for requirement phase, so in short for system integration phase to run, it must have predecessors of coding’s rework and requirement phase.
4. “Documentation phase can start as soon as requirement is complete” but I have assumed the whole project in a serial fashion, so for documentation phase to start it has predecessors “test fixed defects” and requirement’s “rework” step.
5. I used program engineers for coding and creating unit test cases.
6. I used test engineers for test related functions.
7. Used hours and days accuracy of not more than two decimal points for the calculation of overall duration of the Task.
8. Have treated **requirement and use case task separately** but have used mixed combination of engineers for completion of task.
9. I have used **100%** for every unit resource.
10. All the assumptions I have made are correct to my understanding and are made to ensure proper utilization of the resources and to maintain the quality of the project.

**START DATE OF THE PROJECT: 02/06/2015**

**FINISH DATE OF THE PROJECT: 08/28/2015 DURATION OF PROJECT: 145.66 DAYS**

**SOFTWARE PROJECT MANAGEMENT NIKHIL ARORA – A20339503**

**ASSIGNMENT NO: 1 FILE NAME – Assignment1-20%.mpp**

**Question-4**

ASSUMPTIONS AND CONSTRAINTS

1. I have added **WBS** and **WORK** column for better understanding of the user.
2. I have used maximum resources available, without over allocating the resources in order to achieve earliest finish date.
3. I have used only program engineers for coding and creating unit test cases.
4. I used only test engineers for test related functions.
5. I have strictly used **20%** of all the resources allocated.
6. I have kept the original duration without rounding it off in order to make the project accurate.
7. Have **treated requirement and use case task separately** but have used mixed combination of engineers for completion of task.
8. Under resource sheet, I reduced the maximum units from 100% to 20%. As a result, duration of the project got increased.
9. All the assumptions I have made are correct to my understanding and are made to ensure proper utilization of the resources and to maintain the quality of the project.

**START DATE OF THE PROJECT: 02/06/2015**

**FINISH DATE OF THE PROJECT: 11/22/2017 DURATION OF PROJECT: 728.31 DAYS**