Assignment 2 (Version control systems)

Study the basics concepts of version control systems, repositories. Thoroughly go through the below links to understand these concepts.

- https://homes.cs.washington.edu/~mernst/advice/version-control.html
- Chapter 1 from the book - http://svnbook.red-bean.com/en/1.7/svn-book.pdf
- Chapter 1 (Getting started) from the book - https://github.com/progit/progit2/releases/download/2.1.194/progit.pdf

Once you are comfortable with the basics, go through the below material to understand the concepts of branching and merging.

- Chapter 4 from book - http://svnbook.red-bean.com/en/1.7/svn-book.pdf
- Chapter 3 (GIT branching) from book - https://github.com/progit/progit2/releases/download/2.1.194/progit.pdf

Assesment Part 1: Viva on the basic concepts of version control, types of version control systems, repositories, working copy, branching and merging. (4 **Marks**)

Assesment Part 2: Install GIT on your system. Also create a github account and create a repository using it. You should be able to demonstrate below mentioned tasks at the time of the evaluation. (3 **Marks**)

- Clone a repository from github into a local repository.
- Edit some file and commit your work to the local repository.
- Push your changes to the github repository.
- Update your local repository with the latest github repository (to get the latest changes from github repository, if any).

Assesment Part 3: Install Apache SUBVERSION (SVN) client on your system. Then setup a local repository using and add some project files to it. (You may refer to the tutorial on official SVN page – https://subversion.apache.org/quick-start). You should be able to demonstrate below mentioned tasks at the time of the evaluation. (3 **Marks**)

- Create a new folder and import the repository.
- Checkout some project file (working copy) from the repository.
- Change the file and commit the changes to the repository.
- Go back to the existing working directory from where you added the files to the repository, update the files from repository, and check if the changes done are reflected here.