**Software Development and Testing IT7320**

**LAB WORK**

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Version control system is a software that helps software developers to work together and maintain a complete history of their work without overwriting each other’s changes.

Git is a distributed version control system . DVCS clients not only check out the latest snapshot of the directory but they also fully mirror the repository. If the sever goes down, then the repository from any client can be copied back to the server to restore it. Every checkout is a full backup of the repository. Git does not rely on the central server and that is why we can perform many operations when we are offline. We can commit changes, create branches, view logs, and perform other operations when we are offline. We require network connection only to publish our changes and take the latest changes.

We can install git from www.git-scm .com. It helps developer to work on project on their local computer and they can copy there whole local repo on the server using github to collaborate with other team members.

**1.Launch terminal of git shell:**

Here are all screenshots of installation of git on local computer.

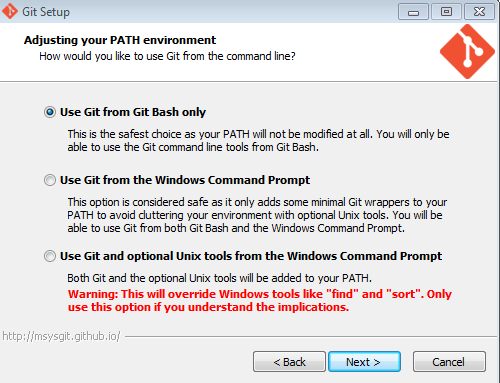
1. Open [www.git-scm.com](http://www.git-scm.com) to get the download link.



1. Download git by clicking on download link. Latest version 2.5.0.

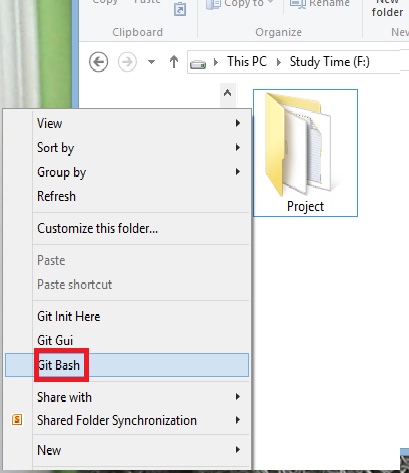


1. Follow the instructions and complete the setup of git. Here are some screenshots of installation of git.



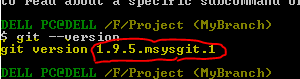


After Completing the Git installation we can open a folder in git bash and after initialize it as a working directory we can start working with git.

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**2.Check Git installation with git version check:**

To check git version type command “git –version” in git bash.

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As command line is responding to git commands, it shows git has been installed on computer successfully and it is in working state.

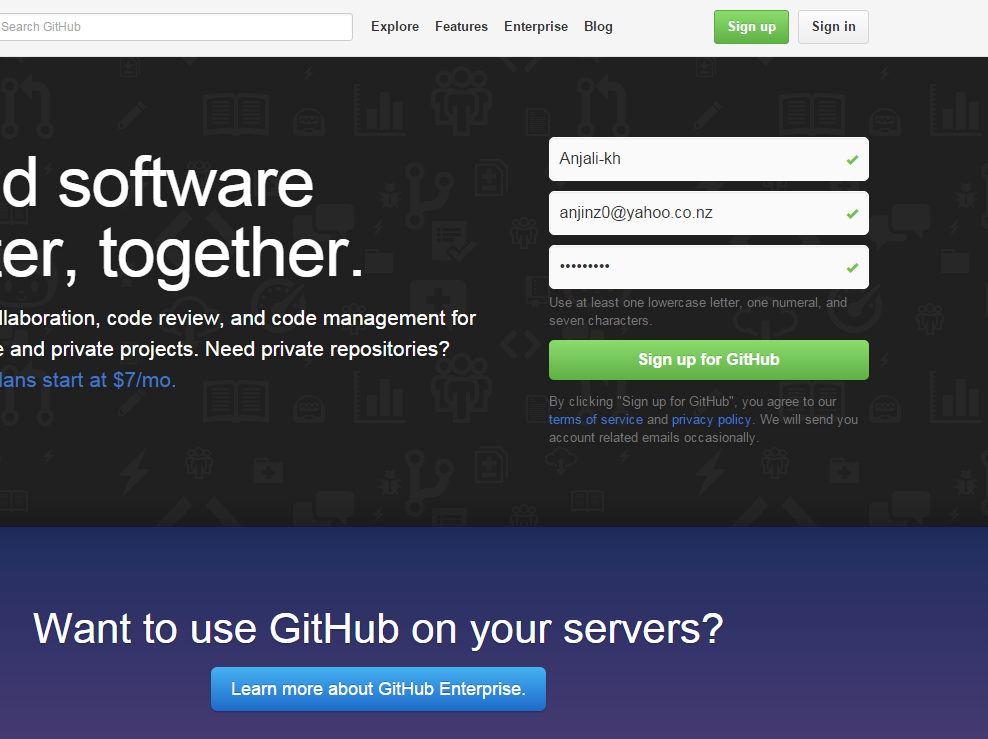
**3.Launch GitHub for desktop:**

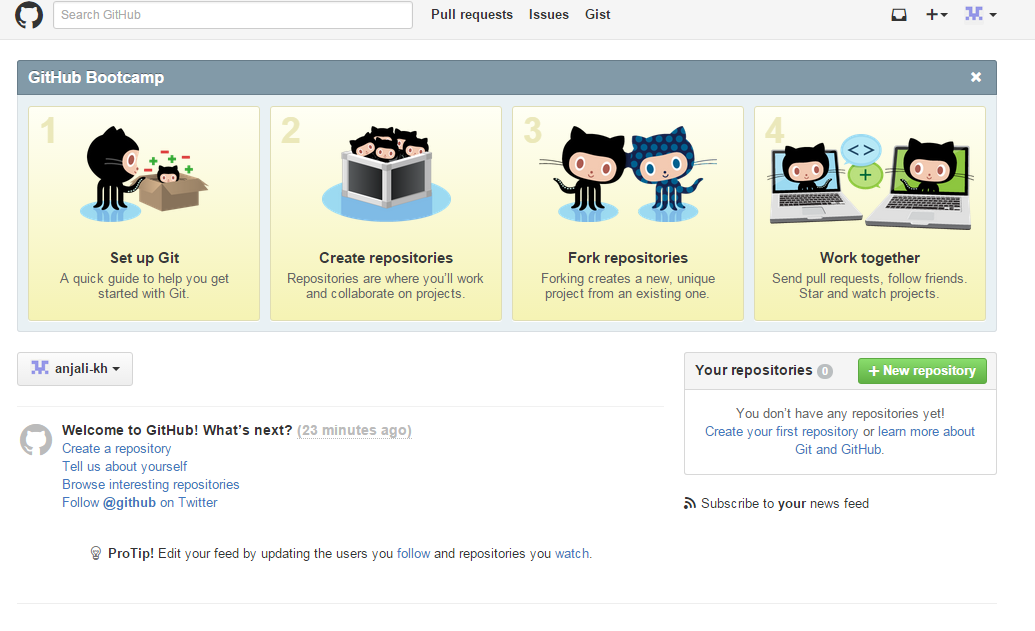
GitHub desktop is an application which can be installed on a local computer to manage remote repositories. Moreover we can perform git commands like push, commit directly by clicking on it from the application rather than typing them in command line environment.

Sign up on GitHub website [www.github.com](http://www.github.com) to create GitHub account.



1. After that we are on the new webpage we need to sign up by type in the details like username , email address, password .
2. After finishing sign up we can sign in any time when we need to access GitHub account by click on sign in and type in username and password.



The above screenshot is the welcome page of GitHub account.

Now we can copy local repositories to the git hub account and we can get all the changes updates in our local repo from remote repo (which we create in Github).

1. We can create remote repo just by clicking on New repository button in github account.

