**LAB1: GITHUB & GIT**

**Installation**

1)For Windows and Mac users you need to install latest version of GIT from the official website

<https://git-scm.com/downloads>

For windows users you need to download **GITBASH**

**LAB LINK: -**

<https://help.github.com/en/articles/adding-an-existing-project-to-github-using-the-command-line>

TASK1: Working in GitHub

1) Create a GitHub Account. Then create a new repository(project) with your name and keep it public also initialize a README file for it with description “This is a sample website made for learning understand basic Git features” As we are building a sample web page, we will need a html file so create a file yournameWebpage.html add below code to the file and commit it.

To understand basics of html code visit <https://www.w3schools.com/html/default.asp>

<!DOCTYPE html>

<html>

<head>

<title>Page Title</title>

</head>

<body>

<h1>SMU Telecom</h1>

<p>SMU Rocks!!!</p>

</body>

</html>

Suppose we want to make some changes in the file[Add or Change the heading ] for example we add this line to the above code:

<p>SMU is an expensive school</p>

After editing our file we won’t get a save option but equivalent to it (commit option) we can also add a note associated with it which can help us keep track of the changes we make.

2) Make a branch of the master repository with name Branch1 and make the following changes to the html file (Changes are mentioned in blue) and commit it to that branch and merge this branch to the master repository.

<!DOCTYPE html>

<html>

<head>

<title>Page Title</title>

</head>

<body>

<h1>SMU Telecom</h1>

<p>SMU Rocks!!!</p>

<h2>Link to SMU website</h2>

<p>HTML links are defined with the a tag. The link address is specified in the href attribute:</p>

<a href="https://www.smu.edu/">This is a link</a>

</body>

</html>

In the above code we added second header and a link to SMU site.

3) Now fork a repository from any of your friends account and send a pull request to the original user after making some changes to the file.

<p>SMU does not have a cricket team l</p>

**TASK2: - Working on GIT using your personal Systems**

Open the following link

[https://www.learnenough.com/git-tutorial#sec-our\_first\_commit](https://www.learnenough.com/git-tutorial%23sec-our_first_commit%20) (Links to an external site.)

Note: In fourth exercise collaborate with one of your friends and perform the tasks given.

Based on the Lab Tutorial, complete the lab. Make a word document and paste all the screenshots and your github account name. Try to use all git commands. There are several exercises throughout this tutorial. Answer all of the the exercise questions thoroughly and submit a PDF document with your responses.

Submit this questionnaire as well--

The **Wh rule????**

1. What did you do in this lab?
2. What problems did you encountered?
3. How did you solve this problem?
4. What aspects of the labs were unclear?

Here are some useful links to get an overview of

What is DevOps?

<https://www.youtube.com/watch?v=_Gpe1Zn-1fE>

Git Concepts?

<https://www.youtube.com/watch?v=BCQHnlnPusY&t=419s>