**Version Control System**

**Version control systems** are software tools that help software teams manage changes to source code over time. Version control software keeps track of every modification to the code in a special kind of database. Using a VCS also generally **means** that if you screw things up or lose files, you can easily recover.

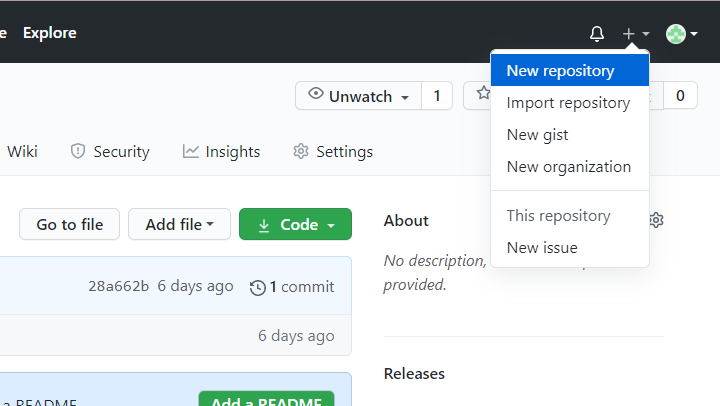
**Git** is software for tracking changes in any set of files, usually used for coordinating work among programmers collaboratively developing source code during software development. Its goals include speed, data integrity, and support for distributed, non-linear workflows.

Step-0:

* 1. Sign up to git
  2. Install git

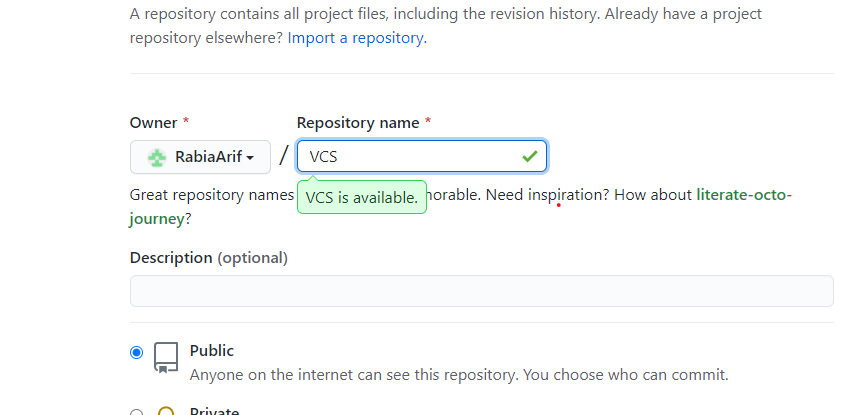
Step-1:

**Create new repository**

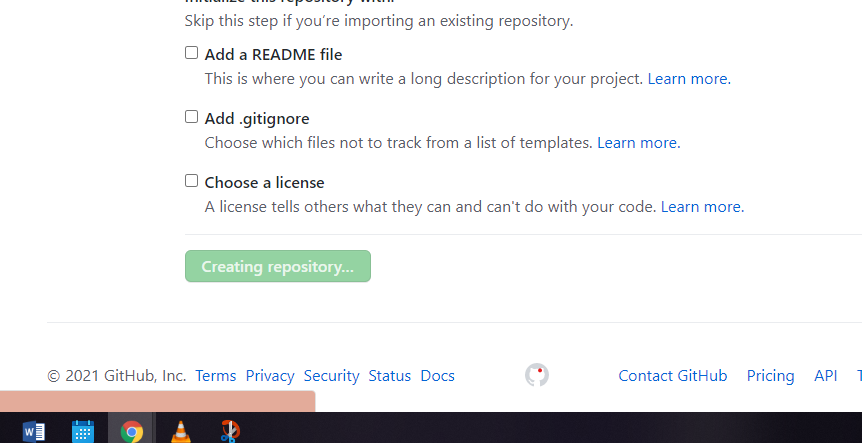


Step-2:

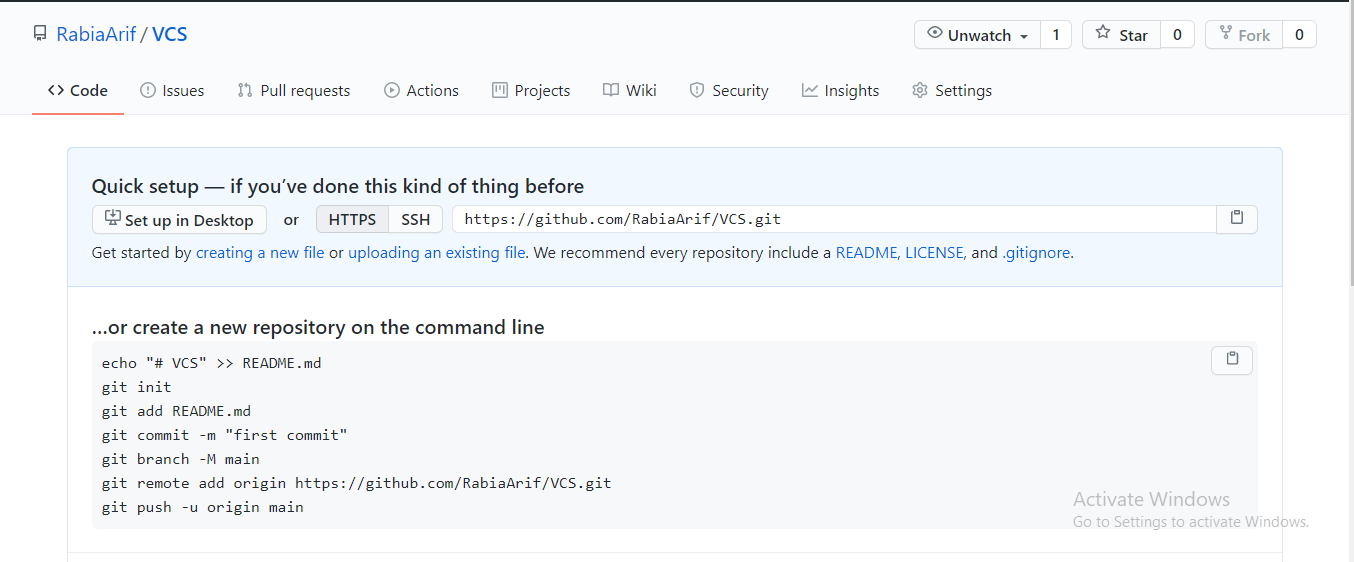
**Set Repository name**



Creating…



Details:

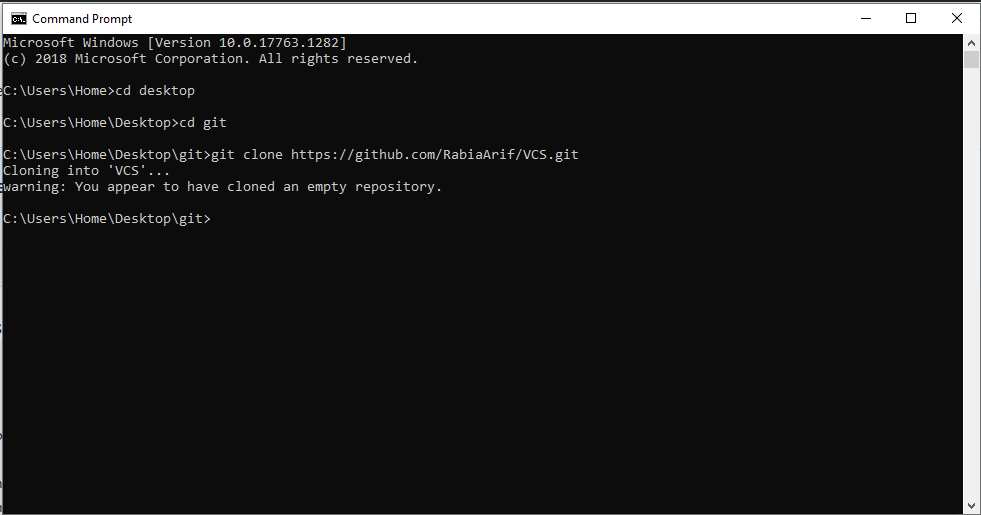


Copy URL

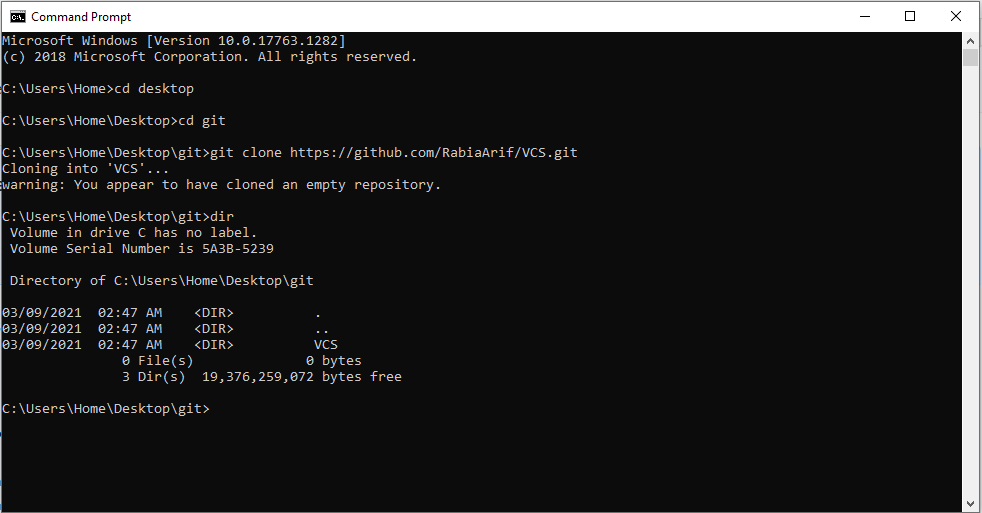
Step-3:

**Cloning locally**

Using command: **git clone** {url}

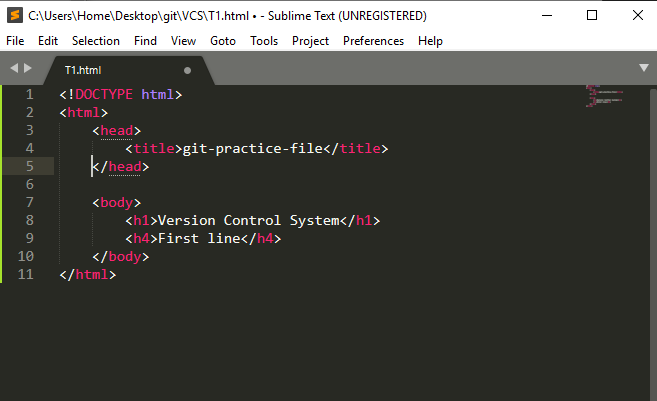


Repository cloned locally



Step-4:

**Creating file in local repository** (C:\...\git\VCS)

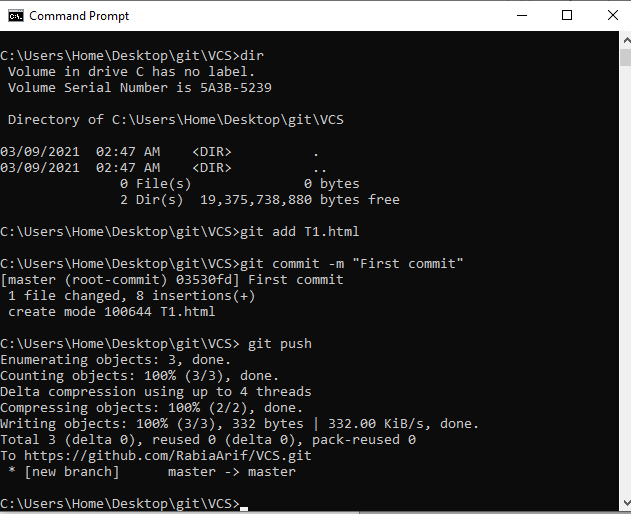


Step-5:

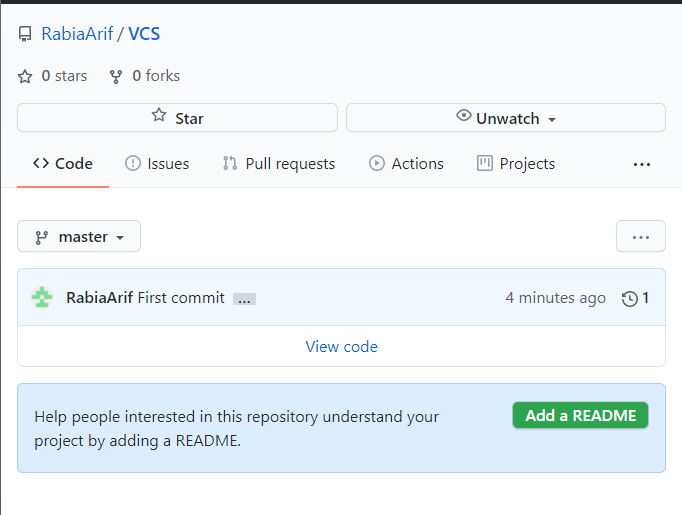
**Add locally created file to online repository**

Using commands

1. **git add** {fileName}
2. **git commit –m** {“message”}
3. **git push**

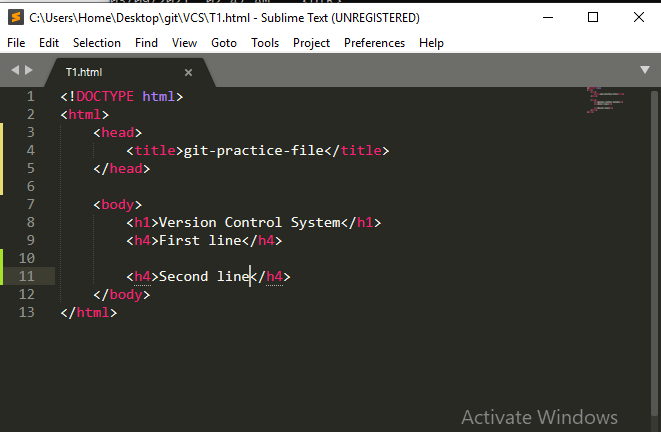


Now data in repository and available locally is **synchronized**.



Step-6:

**Adding new content in local file**

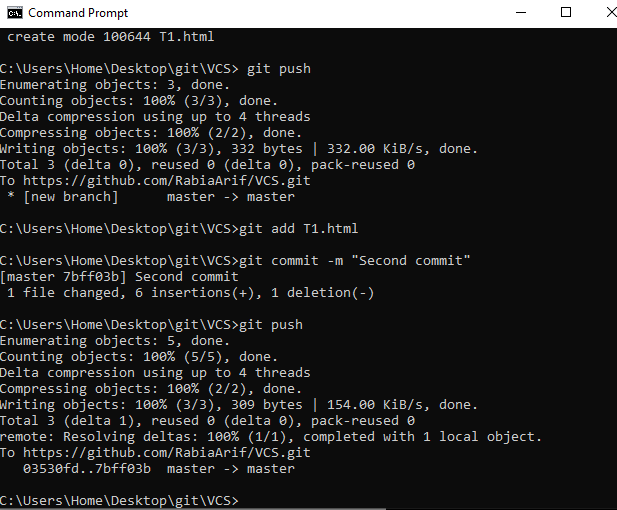


Step-7:

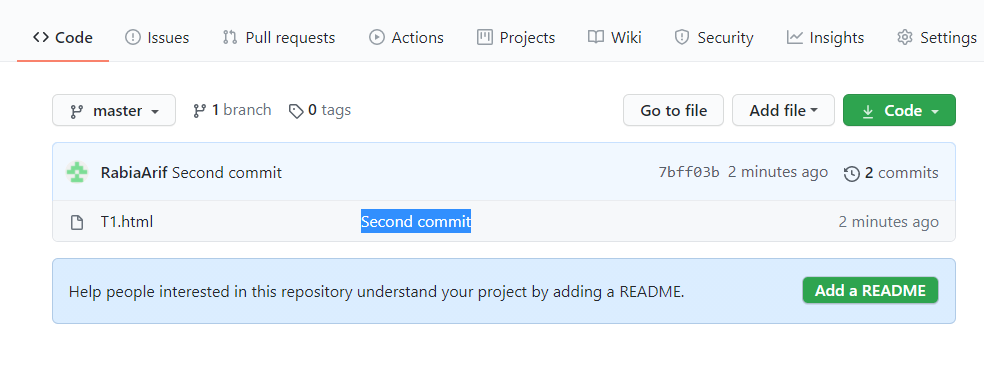
**Push addition in repository**

Using above 3 command

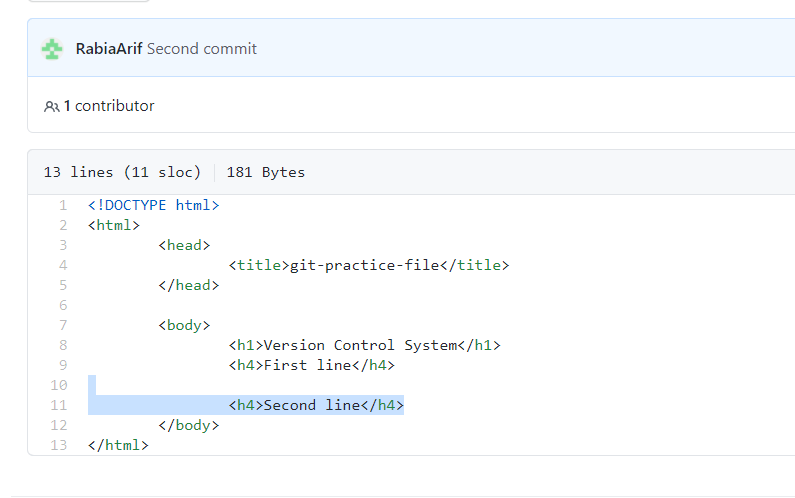
1. **git add** {fileName}
2. **git commit –m** {“message”}
3. **git push**



Change visible in online repository

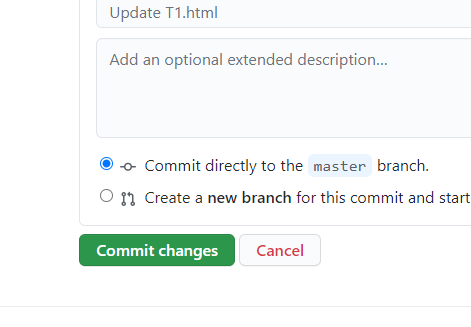
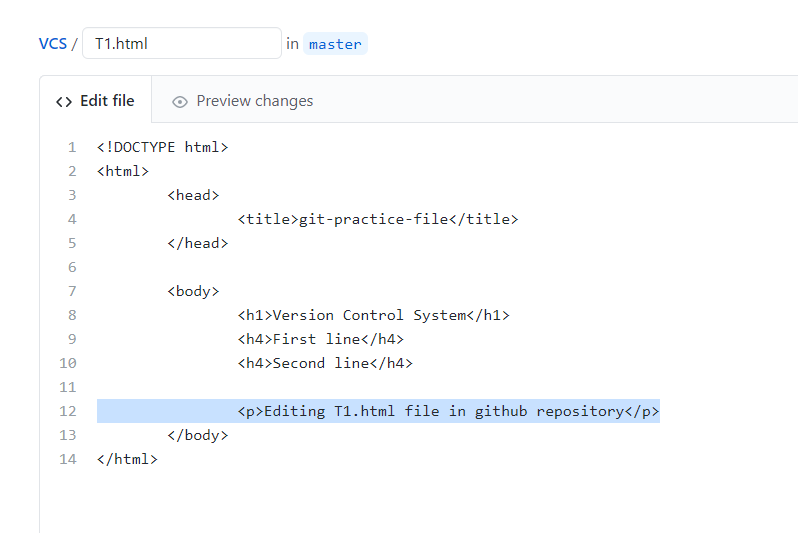


Data in online and local repository … Synchronized



Step-8:

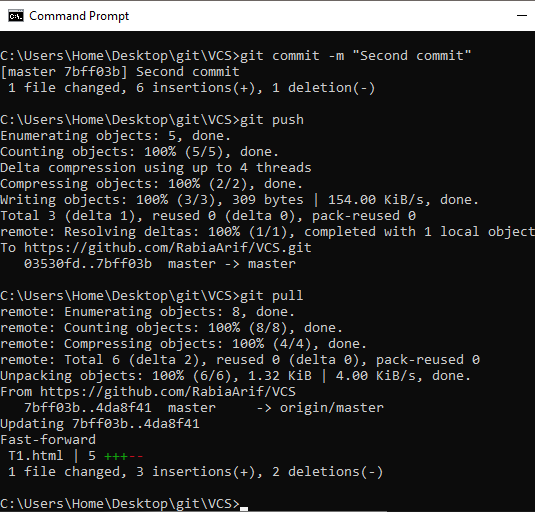
**Online editing a file (in github repository)**



Step-9:

**Getting changes locally**

Using command **git pull**



Synchronized, change also visible in local repository

