**بسم الله الرحمن الرحيم**

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**Submitted to:**

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**Submitted by:**

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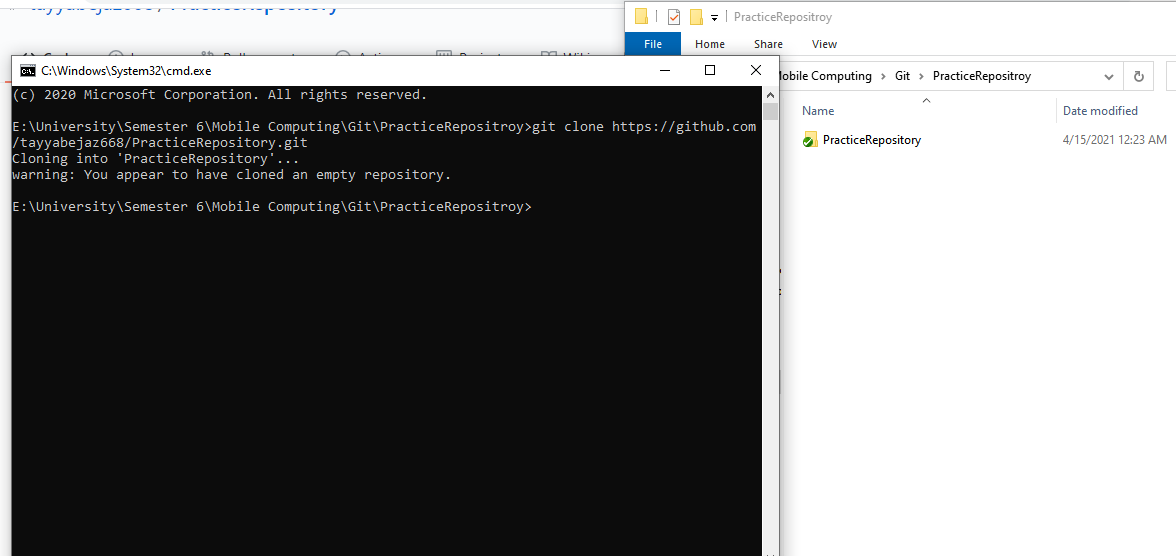
**Roll no:** BSEF18A014

**Punjab University College of Information Technology,**

**PUCIT (Old Campus), LAHORE**

**Version Control System**

* **Features:   
  1)** Code Synchronization (code sharing among different programmers)  
  **2)** Change tracking (track the history of all previous committed changes)  
  **3)** Provides the remote access to central repository
* **Account Created:**
* **Create Repository for Progress File:**
* **Git Clone:** command to clone a repository in local machine from remote (if authorized to access the repository)



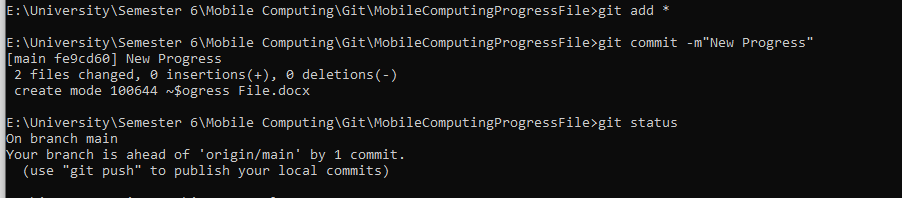
* **Git Status:** Used to check the current status of the local repository



* **Git Add:** Used to add the changed files to staged area



* **Git Commit:** Used to submit staged changes to the local branch



\*m option for giving the caption for commit

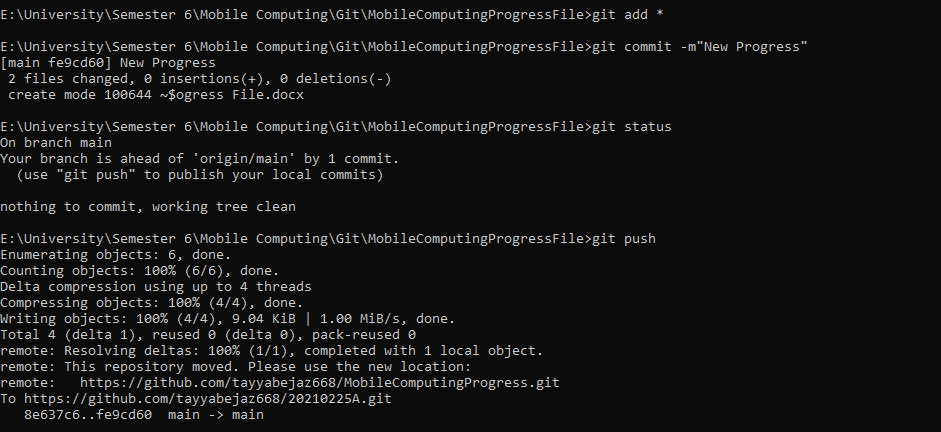
* **Git Pull:** command to pull (get) remote repository changes to the local repository
* **Git Push:** command to push (put) local repository changes to the remote repository
  + **Steps:**

**1)** Do Changes  
**2)** Git Add \*  
**3)** Git Commit

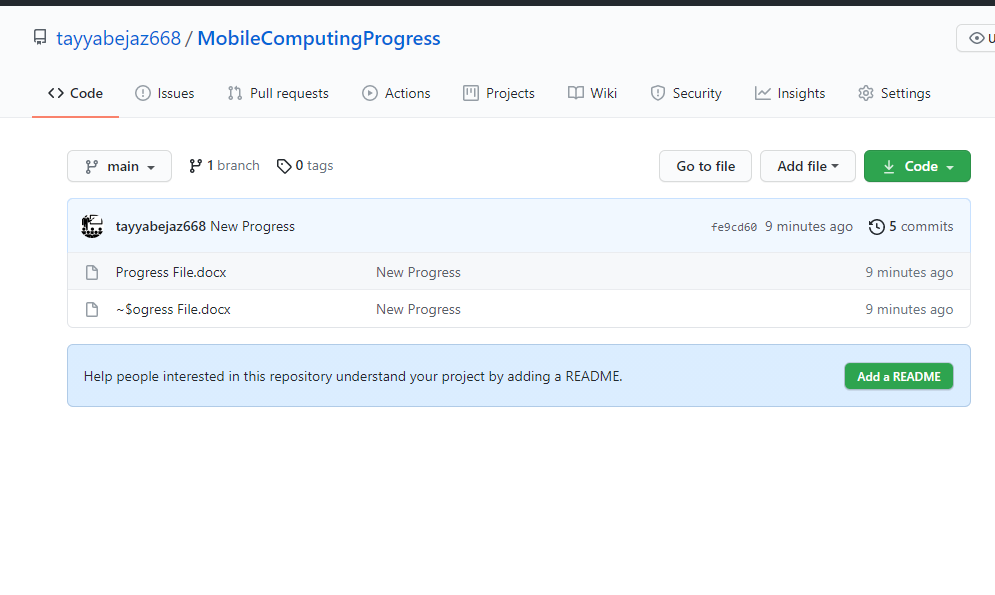
**4)** Git Pull (must to update your local with the new changes in remote)

**5)** Now use **Git Push** command to push code in remote repository

**Local:**



**Remote:**



* **Git Push Origin –force:** command works like git push the difference is it just replaces the remote code with the local repository code without resolving any conflict

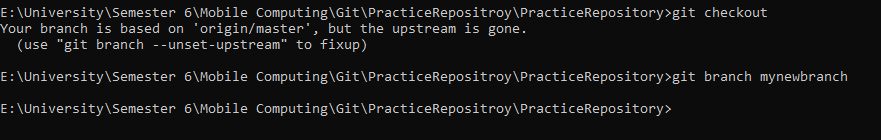
**Before:**



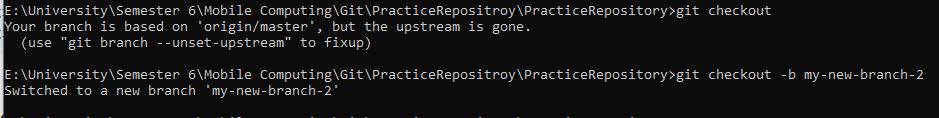
**After:**

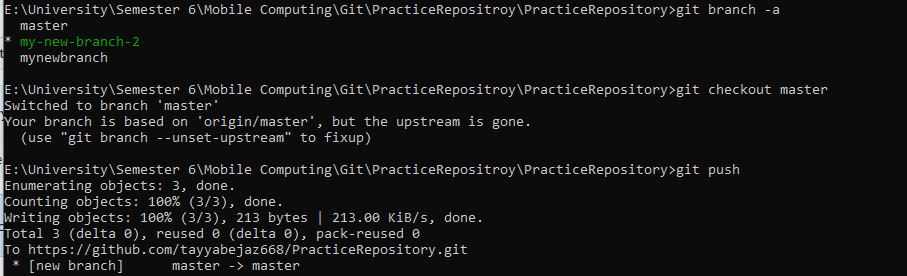


* **Git Branch <Branch Name>:** command to create a new branch in local repository, or to delete a branch when used with -d option.

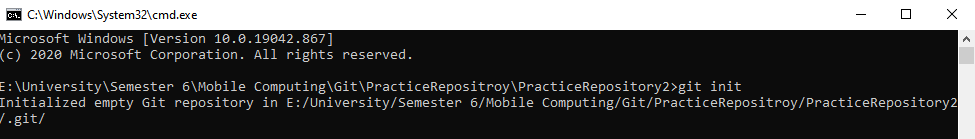


* **Git Checkout <Branch Name>:** command to see current branch, switch an existing branch and to create a new branch when used with the option -b.





* **Git Init:** To initialize current directory as a new local git repository.



* **Git Merge**: command to Integrate branches together. Git merge combines the changes from one branch to another branch.