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Wipro Assignments

Source Code Management With Git

Assignment 1 TO 3

Assignment 1:

Que. Initialize a new repository in a directory of your choice add a simple text file to the repository and make the first commit.

1.Create a new directory

```
mkdir shubhamkumbhar
```

2.For going to this directory

```
cd shubhamkumbhar
```

3.Cloning via SSh to connect github

```
git clone git@gitlab.com:sk5640/shubhamkassignments.git
```

4.Initialize the repository in the current directory by running:

```
git init
```

5.Create a simple text file:

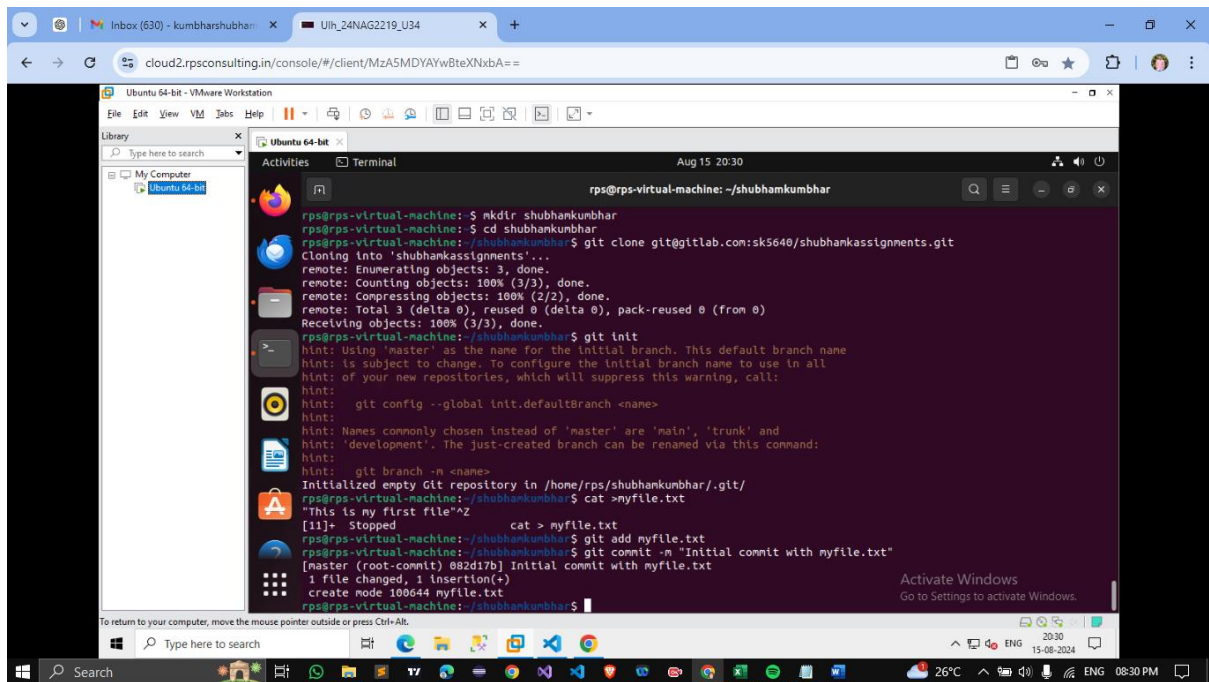
```
cat >myfile.txt
```

6.Add the File to the Staging Area:

```
git add myfile.txt
```

7.Make the First Commit:

```
git commit -m "Initial commit with myfile.txt"
```



Assignment 2

Que. Branch creation and switching

create a new branch named 'feature' and switch to it. Make changes in the 'feature' branch and commit them.

1.Create a New Branch Named 'feature':

git branch feature

2.Switch to the feature Branch:

Git switch feature

3.Make changes in the feature branch:

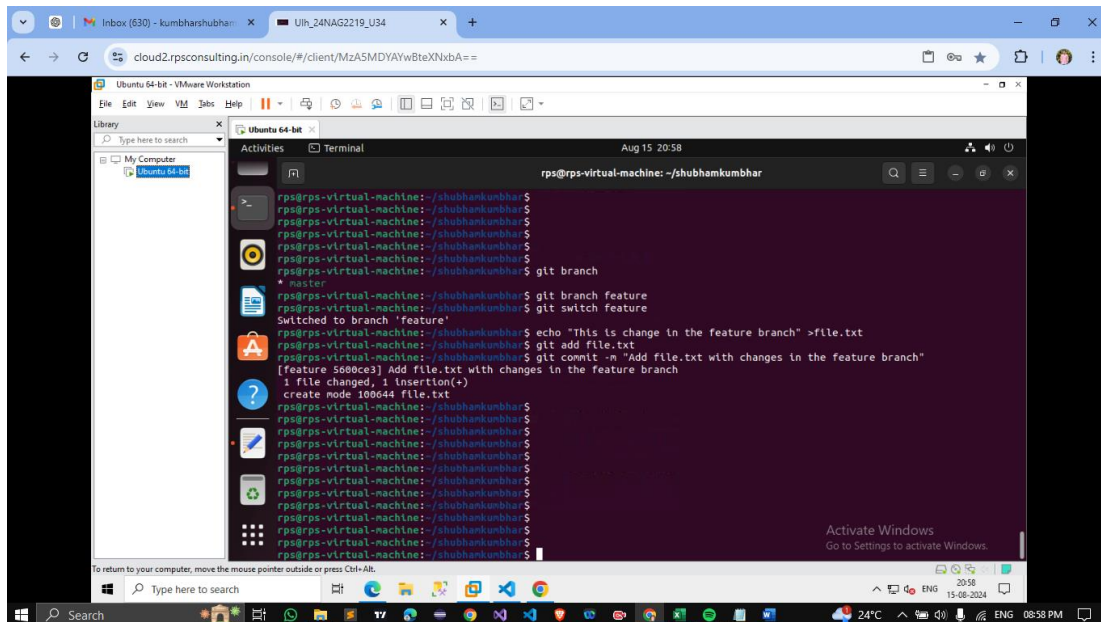
echo "This is a change in the feature branch" >file.txt

4.Add the changes to the staging area:

git add file.txt

5.Commit the changes:

git commit -m "Add file.txt with changes in the feature branch"



The screenshot shows a terminal window within a VMware Workstation environment. The terminal is running on a virtual machine named 'rps@rps-virtual-machine: /shubhamkumbhar'. The user has executed the following commands and received the following output:

```
rps@rps-virtual-machine: /shubhamkumbhar$ git branch
* master
rps@rps-virtual-machine: /shubhamkumbhar$ git branch feature
rps@rps-virtual-machine: /shubhamkumbhar$ git switch feature
Switched to branch 'feature'
rps@rps-virtual-machine: /shubhamkumbhar$ echo "This is change in the feature branch" >file.txt
rps@rps-virtual-machine: /shubhamkumbhar$ git add file.txt
rps@rps-virtual-machine: /shubhamkumbhar$ git commit -m "Add file.txt with changes in the feature branch"
[feature 5606c3] Add file.txt with changes in the feature branch
1 file changed, 1 insertion(+)
create mode 100644 file.txt
rps@rps-virtual-machine: /shubhamkumbhar$
```

Assignment 3:

Que. Feature branches and hotfixes

Create a 'hotfix' branch to fix an issue in the main code. Merge the 'hotfix' branch into 'main' ensuring that the issue is resolved.

1.Ensure we are on the which 'main' branch

git branch

2.Create a new branch

git branch hotfix

3.Switch to main branch to hotfix branch

git switch hotfix

4.create and update some changes in file

nano file_with_issue.txt

5.Add the modified file to the staging area.

```
git add file_with_issue.txt
```

6.commit the changes

```
git commit -m "file updated with solving issue"
```

7.Once the changes are committed in the hotfix branch, switch back to the main branch.

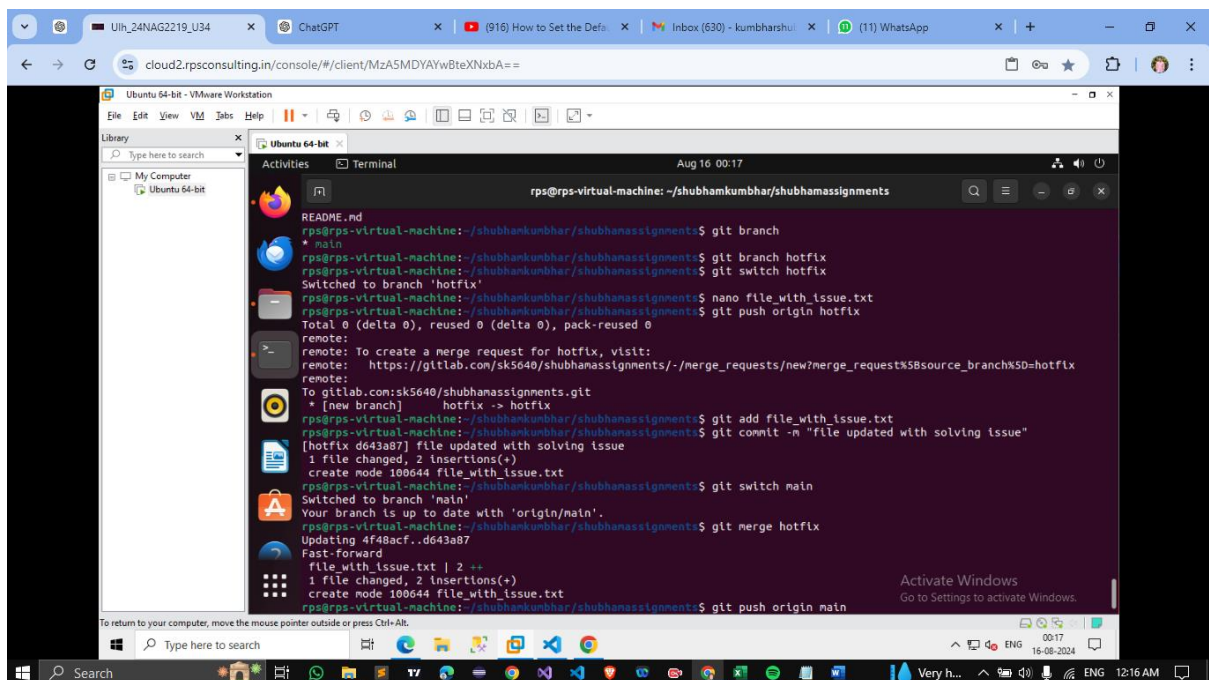
```
git switch main
```

8.Merge the hotfix branch into the main branch.

```
git merge hotfix
```

9.Push the updated main branch with the merged changes to the remote repository

```
git push origin main
```



```
cloud2.rpsconsulting.in/console/#/client/MzA5MDYAYwBteXNxbA==

Ubuntu 64-bit - VMware Workstation
File Edit View VM Help
Library
Type here to search
My Computer
Ubuntu 64-bit

Activities Terminal Aug 16 00:17
rps@rps-virtual-machine: ~/shubhamkumbhar/shubhamassignments

README.md
rps@rps-virtual-machine:~/shubhamkumbhar/shubhamassignments$ git branch
* main
rps@rps-virtual-machine:~/shubhamkumbhar/shubhamassignments$ git branch hotfix
rps@rps-virtual-machine:~/shubhamkumbhar/shubhamassignments$ git switch hotfix
Switched to branch 'hotfix'
rps@rps-virtual-machine:~/shubhamkumbhar/shubhamassignments$ nano file_with_issue.txt
rps@rps-virtual-machine:~/shubhamkumbhar/shubhamassignments$ git push origin hotfix
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: To create a merge request for hotfix, visit:
remote: https://gitlab.com/sk5640/shubhamassignments/-/merge_requests/new?merge_request%5Bsource_branch%5D=hotfix
remote:
To gitlab.com:sk5640/shubhamassignments.git
* [new branch] hotfix -> hotfix
rps@rps-virtual-machine:~/shubhamkumbhar/shubhamassignments$ git add file_with_issue.txt
[hotfix d643a87] file updated with solving issue
1 file changed, 2 insertions(+)
create mode 100644 file_with_issue.txt
rps@rps-virtual-machine:~/shubhamkumbhar/shubhamassignments$ git switch main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
rps@rps-virtual-machine:~/shubhamkumbhar/shubhamassignments$ git merge hotfix
Updating 4f48acf..d643a87
Fast-forward
 file_with_issue.txt | 2 ++
1 file changed, 2 insertions(+)
create mode 100644 file_with_issue.txt
rps@rps-virtual-machine:~/shubhamkumbhar/shubhamassignments$ git push origin main
```

