

UNIVERSITY OF WEST LONDON

# Introduction To Software Development: Using a Code Repository

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## Assignment 1

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## Contents

Introduction .....	2
What Is A Code Repository? .....	2
Advantages and Disadvantages Of The Using a Repository.....	2
My Code Repository.....	3
Creating The Code Repository .....	3
Using The Code Repository .....	5
Summary of using the repository.....	14
Evaluation .....	15

## Introduction

This piece of documentation that I am presenting will show the use of an online code repository. Included in this document will be:

- Creating an online code repository (by using Bit bucket)
- The use of Ubuntu terminal to link files to Bit bucket(Bb)
- Editing files from the terminal where the changes will be viewed on Bb

But firstly I would like to outline what a code repository is.

## What Is A Code Repository?

A code repository is a server or client which is used to store a user's code online. The user will be able to share this code to organisations for interviews or for general public to use to solve problems. As mentioned above, the code repository that I have used is Bit bucket (Bb).

## Advantages and Disadvantages Of The Using a Repository

Advantages	Disadvantages
Some repositories will allow the user to set code as private.	Some repositories may always have a public setting.
A large group of individuals can edit code together. E.g. students completing a large project.	Code that is shared in a group may be overwritten and completely lost if copies are not made.
Can be used as evidence to organisation of programming experience.	
Most repositories will allow levels of access/permissions to be set within a group. E.g., Read and Write.	

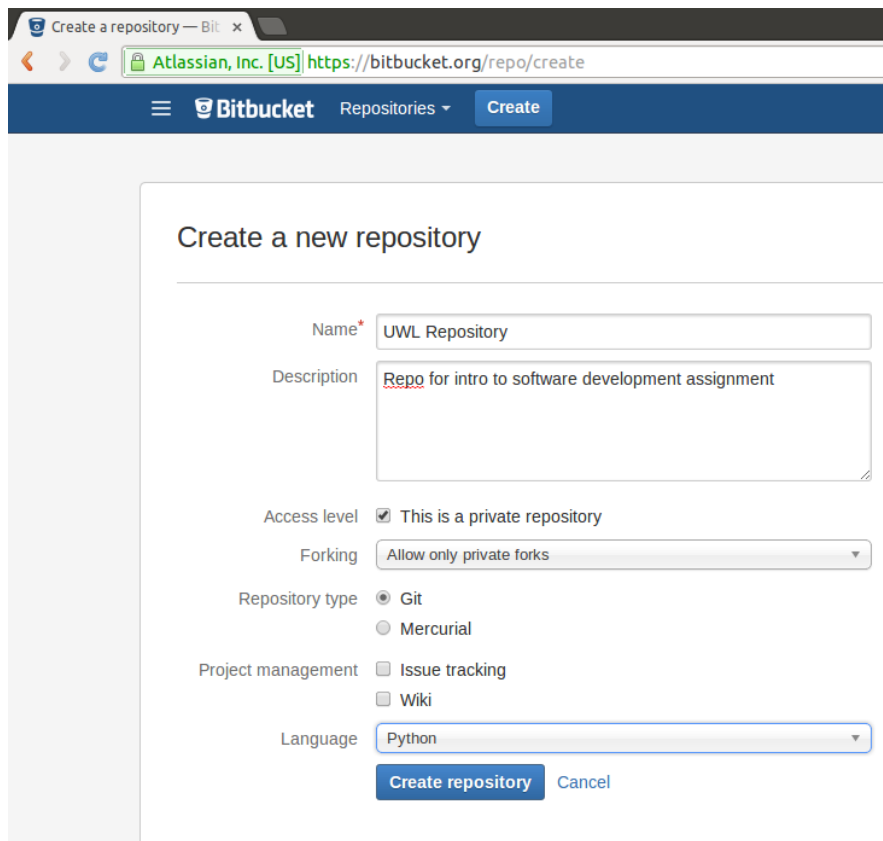
## My Code Repository

In this section I will provide text and print screens, showing how the repository was created and used.

### Creating The Code Repository

#### 1 Making a repository on Bb.

I have simply created a repository (repo) on Bb. I had kept all the defaults the same and added a suitable title and description of the repo.

A screenshot of a web browser showing the Bitbucket 'Create a new repository' page. The browser's address bar shows the URL 'https://bitbucket.org/repo/create'. The page has a dark blue header with the Bitbucket logo and a 'Create' button. The main content area is white and titled 'Create a new repository'. It contains several form fields: 'Name' with the value 'UWL Repository', 'Description' with the value 'Repo for intro to software development assignment', 'Access level' with a checked box for 'This is a private repository', 'Forking' with a dropdown menu set to 'Allow only private forks', 'Repository type' with radio buttons for 'Git' (selected) and 'Mercurial', 'Project management' with checkboxes for 'Issue tracking' and 'Wiki', and 'Language' with a dropdown menu set to 'Python'. At the bottom of the form are two buttons: 'Create repository' and 'Cancel'.

#### 2 The repo is now created.

After creating the repo, Bb had provided a long line of code that will be used to link the repo to a directory that I had created.

## Clone your new repo

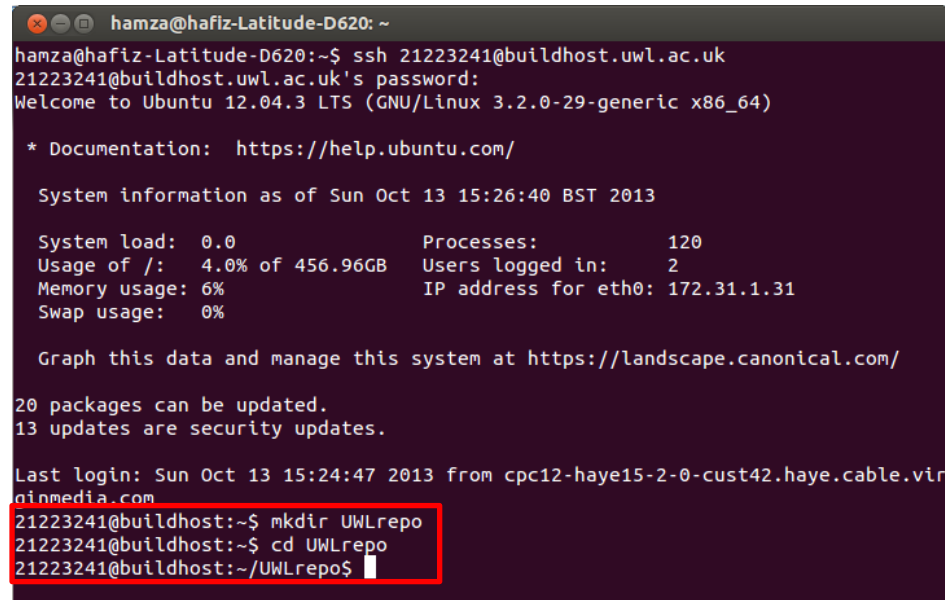
Set up Git on your machine if you haven't already.

```
$ mkdir /path/to/your/project
$ cd /path/to/your/project
$ git init
$ git remote add origin https://HamzaB93@bitbucket.org/HamzaB93/uwl-repository.git
```

Visit [Bitbucket 101](#) for more help getting set up.

### 3 Creating a directory.

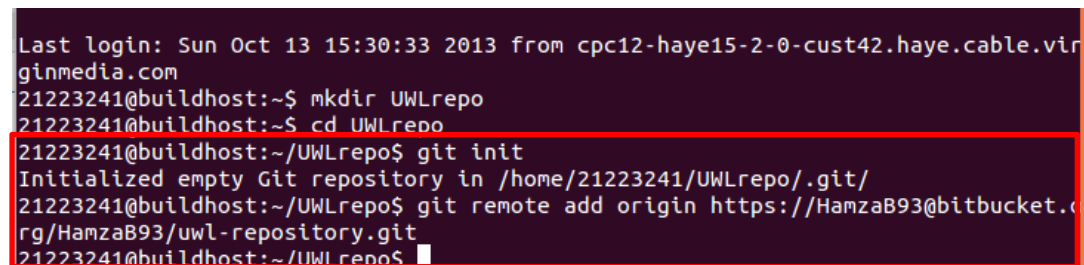
Here, I have shown that I have created a directory in terminal which will then be linked to my Bb repo. I had use `$mkdir` to create the directory and `$cd` to move to the directory.

A terminal window titled 'hamza@hafiz-Latitude-D620: ~' showing the output of an SSH session. It displays system information for Ubuntu 12.04.3 LTS, including system load, memory usage, and network status. The user then runs 'mkdir UWLrepo' and 'cd UWLrepo' to create and move into the new directory. The last three lines of the terminal output are highlighted with a red box.

```
hamza@hafiz-Latitude-D620: ~  
hamza@hafiz-Latitude-D620:~$ ssh 21223241@buildhost.uwl.ac.uk  
21223241@buildhost.uwl.ac.uk's password:  
Welcome to Ubuntu 12.04.3 LTS (GNU/Linux 3.2.0-29-generic x86_64)  
  
* Documentation:  https://help.ubuntu.com/  
  
System information as of Sun Oct 13 15:26:40 BST 2013  
  
System load:  0.0                Processes:      120  
Usage of /:   4.0% of 456.96GB   Users logged in: 2  
Memory usage: 6%                IP address for eth0: 172.31.1.31  
Swap usage:   0%  
  
Graph this data and manage this system at https://landscape.canonical.com/  
  
20 packages can be updated.  
13 updates are security updates.  
  
Last login: Sun Oct 13 15:24:47 2013 from cpc12-haye15-2-0-cust42.haye.cable.virginmedia.com  
21223241@buildhost:~$ mkdir UWLrepo  
21223241@buildhost:~$ cd UWLrepo  
21223241@buildhost:~/UWLrepo$
```

### 4 Linking the directory to Bb.

As stated earlier in screen 2, Bb had provided a command, when used, will link my directory to Bb. I first typed `$git init` to ensure a link can be made. After this, I had simply copied and pasted the command to terminal.

A terminal window showing the continuation of the previous session. The user runs 'git init' to initialize a new Git repository and 'git remote add origin' to link it to a remote repository on Bitbucket. The last three lines of the terminal output are highlighted with a red box.

```
Last login: Sun Oct 13 15:30:33 2013 from cpc12-haye15-2-0-cust42.haye.cable.virginmedia.com  
21223241@buildhost:~$ mkdir UWLrepo  
21223241@buildhost:~$ cd UWLrepo  
21223241@buildhost:~/UWLrepo$ git init  
Initialized empty Git repository in /home/21223241/UWLrepo/.git/  
21223241@buildhost:~/UWLrepo$ git remote add origin https://HamzaB93@bitbucket.org/HamzaB93/uwl-repository.git  
21223241@buildhost:~/UWLrepo$
```

Now that the repository is created and linked to my directory, I was able to store files on Bb. This is demonstrated in the next section.

## Using The Code Repository

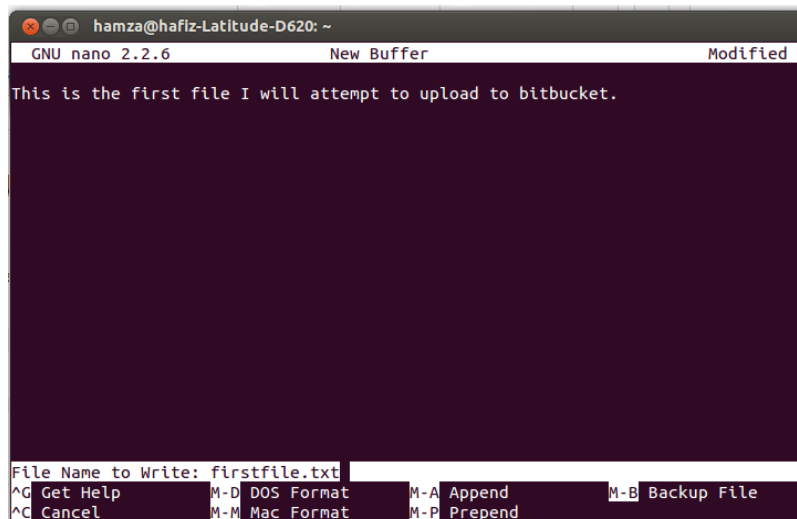
### 5 Using nano to create a file.

My next step was to create a file. This was done by using an editor in the terminal called nano. To enter nano, I had to simply type `$nano`.

```
Last login: Sun Oct 13 15:30:33 2013 from cpc12-haye15-2-0-cust42.haye.cable.vi
ginmedia.com
21223241@buildhost:~$ mkdir UWLrepo
21223241@buildhost:~$ cd UWLrepo
21223241@buildhost:~/UWLrepo$ git init
Initialized empty Git repository in /home/21223241/UWLrepo/.git/
21223241@buildhost:~/UWLrepo$ git remote add origin https://HamzaB93@bitbucket.
rg/HamzaB93/uwl-repository.git
21223241@buildhost:~/UWLrepo$ nano
```

### 6 Using nano.

The screen shot below shows the nano editor within the terminal. I had just typed a sentence and saved the file as “firstfile.txt”.



### 7 LS showing new file.

To ensure that the file that I had created was within the directory that I created, I entered the list command `$ls`. The file was in the correct directory.

```
21223241@buildhost:~/UWLrepo$ nano
21223241@buildhost:~/UWLrepo$ ls
firstfile.txt
21223241@buildhost:~/UWLrepo$
```

## 8 Git commands to ready for uploading.

For my file to be uploaded to Bb, I had to enter git commands. The first was `$git add`, which readied the file. I then entered a commit command which gives a summary of what I am uploading. This command was `$git commit -m "small description."`

```
1223241@buildhost:~/UWLrepo$ nano
1223241@buildhost:~/UWLrepo$ ls
firstfile.txt
1223241@buildhost:~/UWLrepo$ git add firstfile.txt
1223241@buildhost:~/UWLrepo$ git commit -m "created first file to upload to bitbucket."
master (root-commit) 5ab781d] created first file to upload to bitbucket.
1 file changed, 1 insertion(+)
create mode 100644 firstfile.txt
1223241@buildhost:~/UWLrepo$
```

## 9 Pushing my file.



After the file was added and committed to, I had to enter a push command which uploaded the file created to my Bb account. The command entered was `$ git push origin master`.



```
1223241@buildhost:~/UWLrepo$ git add firstfile.txt
1223241@buildhost:~/UWLrepo$ git commit -m "created first file to upload to bitbucket."
master (root-commit) 5ab781d] created first file to upload to bitbucket.
1 file changed, 1 insertion(+)
create mode 100644 firstfile.txt
1223241@buildhost:~/UWLrepo$ git push origin master
password for 'https://HamzaB93@bitbucket.org':
* https://HamzaB93@bitbucket.org/HamzaB93/uwl-repository.git
* [new branch]      master -> master
1223241@buildhost:~/UWLrepo$
```

As seen in the screenshot below, recent activity showed that my firstfile.txt had been uploaded to Bb successfully. The activity also showed the description that I had entered in my commit.

Repo for intro to software development assignment

**Recent activity**

  Hamza Bhatti pushed 1 commit to HamzaB93/UWL Repository just now  
5ab781d - created first file to upload to bitbucket.

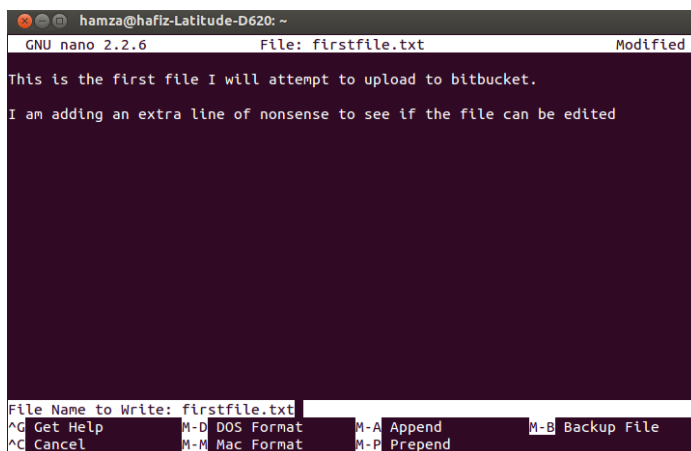
  Hamza Bhatti created HamzaB93/UWL Repository 12 minutes ago

## 10 Editing firstfile.txt

Next, I used nano edit my firstfile.txt. To do this, I had entered `$nano firstfile.txt`.

```
21223241@buildhost:~/UWLrepo$ git add firstfile.txt
21223241@buildhost:~/UWLrepo$ git commit -m "created first file to upload to bit
bucket."
[master (root-commit) 5ab781d] created first file to upload to bitbucket.
1 file changed, 1 insertion(+)
create mode 100644 firstfile.txt
21223241@buildhost:~/UWLrepo$ git push origin master
Password for 'https://HamzaB93@bitbucket.org':
To https://HamzaB93@bitbucket.org/HamzaB93/uwl-repository.git
* [new branch]      master -> master
21223241@buildhost:~/UWLrepo$ nano firstfile.txt
```

Below, I have shown that I have added a new line of text to firstfile.txt and saved it.






## 11 Git, commit and push



Like the previous upload, I had to enter git add, a commit and push command.



```
21223241@buildhost:~/UWLrepo$ nano firstfile.txt
21223241@buildhost:~/UWLrepo$ git add firstfile.txt
21223241@buildhost:~/UWLrepo$ git commit -m "added a line to firstfile for editi
ng."
[master dce09a0] added a line to firstfile for editing.
1 file changed, 2 insertions(+)
21223241@buildhost:~/UWLrepo$ git push origin master
Password for 'https://HamzaB93@bitbucket.org':
To https://HamzaB93@bitbucket.org/HamzaB93/uwl-repository.git
5ab781d..dce09a0  master -> master
21223241@buildhost:~/UWLrepo$
```

The next screenshot shows that firstfile.txt has been edited and uploaded to Bb.

Recent activity 

 Hamza Bhatti pushed 1 commit to HamzaB93/UWL Repository just now  
dce09a0 - added a line to firstfile for editing.

 Hamza Bhatti pushed 1 commit to HamzaB93/UWL Repository 4 minutes ago  
5ab781d - created first file to upload to bitbucket.

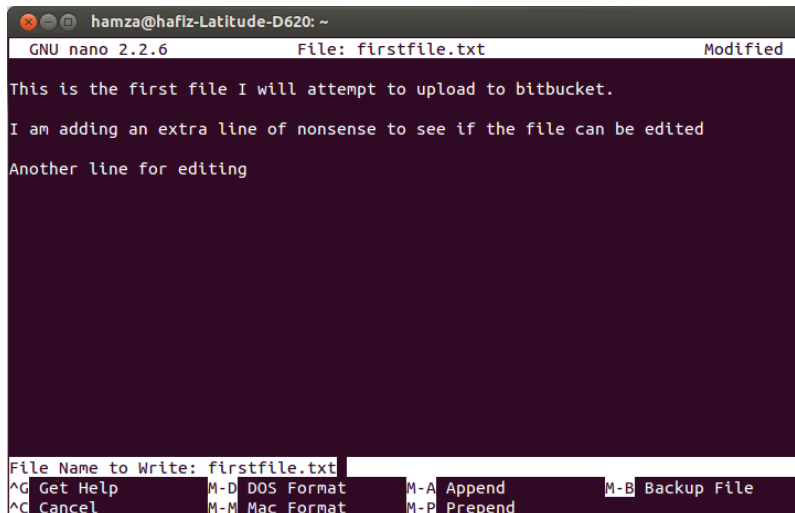
 Hamza Bhatti created HamzaB93/UWL Repository 15 minutes ago



## 12 More editing for firstfile.txt, add commit and push commands

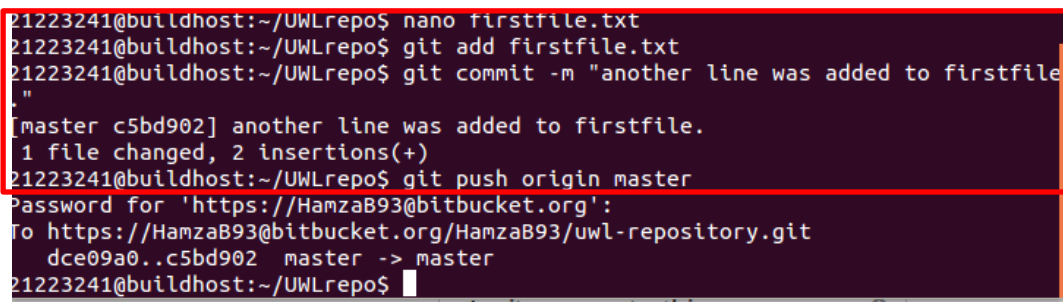
I once again used nano to edit firstfile.txt. This was again followed by using add, commit and push commands. The firstfile.txt successfully uploaded to my Bb account.

Using nano.



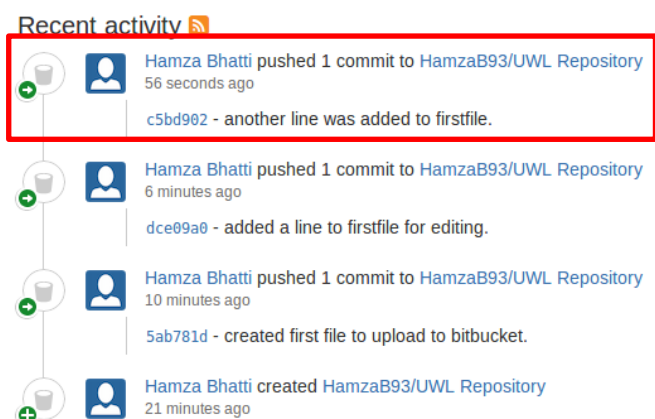
```
hamza@hafiz-Latitude-D620: ~  
GNU nano 2.2.6 File: firstfile.txt Modified  
This is the first file I will attempt to upload to bitbucket.  
I am adding an extra line of nonsense to see if the file can be edited  
Another line for editing  
File Name to Write: firstfile.txt  
^G Get Help ^M-D DOS Format ^M-A Append ^M-B Backup File  
^C Cancel ^M-M Mac Format ^M-P Prepend
```

Git add, commit and push







```
21223241@buildhost:~/UWLrepo$ nano firstfile.txt  
21223241@buildhost:~/UWLrepo$ git add firstfile.txt  
21223241@buildhost:~/UWLrepo$ git commit -m "another line was added to firstfile  
t"  
[master c5bd902] another line was added to firstfile.  
1 file changed, 2 insertions(+)  
21223241@buildhost:~/UWLrepo$ git push origin master  
Password for 'https://HamzaB93@bitbucket.org':  
To https://HamzaB93@bitbucket.org/HamzaB93/uwl-repository.git  
dce09a0..c5bd902 master -> master  
21223241@buildhost:~/UWLrepo$
```

Recent activity on Bb showing firstfile.txt was edited.



Recent activity 📡

-  Hamza Bhatti pushed 1 commit to HamzaB93/UWL Repository 56 seconds ago  
c5bd902 - another line was added to firstfile.
-  Hamza Bhatti pushed 1 commit to HamzaB93/UWL Repository 6 minutes ago  
dce09a0 - added a line to firstfile for editing.
-  Hamza Bhatti pushed 1 commit to HamzaB93/UWL Repository 10 minutes ago  
5ab781d - created first file to upload to bitbucket.
-  Hamza Bhatti created HamzaB93/UWL Repository 21 minutes ago

### 13 Adding another line to firstfile.txt.

I again added a line to firstfile.txt through nano.

```

hamza@hafiz-Latitude-D620: ~
GNU nano 2.2.6      File: firstfile.txt      Modified
This is the first file I will attempt to upload to bitbucket.
I am adding an extra line of nonsense to see if the file can be edited
Another line for editing
Added another line
[Read 7 lines]
^G Get Help  ^O WriteOut  ^R Read File ^Y Prev Page ^K Cut Text  ^C Cur Pos
^X Exit      ^J Justify   ^W Where Is ^V Next Page ^U UnCut Text ^T To Spell

```

After editing firstfile.txt I then created a file called random.txt. To prove that this file was made, I entered `$ls`. This showed the new file.

```

21223241@buildhost:~/UWLrepo$ nano firstfile.txt
21223241@buildhost:~/UWLrepo$ nano firstfile.txt
21223241@buildhost:~/UWLrepo$ nano
21223241@buildhost:~/UWLrepo$ ls
firstfile.txt random.txt
21223241@buildhost:~/UWLrepo$

```

After I had edited firstfile.txt and created random.txt, this was followed by add, commit and push command. This uploaded both the files to Bb.

```

1223241@buildhost:~/UWLrepo$ git add firstfile.txt
1223241@buildhost:~/UWLrepo$ git add random.txt
1223241@buildhost:~/UWLrepo$ git commit -m "edited firstfile and made new file, random."
master ac92367] edited firstfile and made new file, random.
2 files changed, 3 insertions(+)
create mode 100644 random.txt
1223241@buildhost:~/UWLrepo$ git push origin master
assword for 'https://HamzaB93@bitbucket.org':
o https://HamzaB93@bitbucket.org/HamzaB93/uwl-repository.git
c5bd902..ac92367 master -> master
1223241@buildhost:~/UWLrepo$

```

Recent activity

- Hamza Bhatti pushed 1 commit to HamzaB93/UWL Repository just now  
ac92367 - edited firstfile and made new file, random.
- Hamza Bhatti pushed 1 commit to HamzaB93/UWL Repository 20 minutes ago  
c5bd902 - another line was added to firstfile.
- Hamza Bhatti pushed 1 commit to HamzaB93/UWL Repository 25 minutes ago  
dce09a0 - added a line to firstfile for editing.
- Hamza Bhatti pushed 1 commit to HamzaB93/UWL Repository 29 minutes ago  
5ab781d - created first file to upload to bitbucket.
- Hamza Bhatti created HamzaB93/UWL Repository

## 14 More editing and creating a new file.

I have added yet another line to first file. This was then followed by creation of a new file called summary. This file was created in nano like the former. This summarised the method of creating the repo and uploading files.

```

hamza@hafiz-Latitude-D620: ~
GNU nano 2.2.6 File: firstfile.txt Modified
This is the first file I will attempt to upload to bitbucket.
I am adding an extra line of nonsense to see if the file can be edited
Another line for editing
Added another line
Last edit for this file
File Name to Write: firstfile.txt
^G Get Help M-D DOS Format M-A Append M-B Backup File
^C Cancel M-M Mac Format M-P Prepend

```

The new file Summary.txt

```

hamza@hafiz-Latitude-D620: ~
GNU nano 2.2.6 New Buffer Modified
Assignment 1: The method of using terminal and bit bucket
I first created a repo on bitbucket.
I then logged onto UWL ubuntu server.
Next i created a new directory for myself and linked it to bb
I then created a first file using nano and uploaded it to bitbucket by
adding committing and pushing
I edited the first file around 3 times.
Continuing, I created a new random file to edit, and repeated my processes.
File Name to Write: Summaryfile.txt
^G Get Help M-D DOS Format M-A Append M-B Backup File
^C Cancel M-M Mac Format M-P Prepend

```

I then followed up by adding the firstfile.txt, random.txt and Summary.txt. The files were then committed to and pushed to Bb.

```

21223241@buildhost:~/UWLrepo$ nano firstfile.txt
21223241@buildhost:~/UWLrepo$ nano random.txt
21223241@buildhost:~/UWLrepo$ nano
21223241@buildhost:~/UWLrepo$ git add firstfile.txt
21223241@buildhost:~/UWLrepo$ git add random.txt
21223241@buildhost:~/UWLrepo$ ls
firstfile.txt random.txt Summaryfile.txt
21223241@buildhost:~/UWLrepo$ git add Summaryfile.txt
21223241@buildhost:~/UWLrepo$ git commit -m "edited firstfile random and created
a new summary file."
[master 60f0e27] edited firstfile random and created a new summary file.
3 files changed, 14 insertions(+)
create mode 100644 Summaryfile.txt
21223241@buildhost:~/UWLrepo$ git push origin master
Password for 'https://HamzaB93@bitbucket.org':
To https://HamzaB93@bitbucket.org/HamzaB93/uwl-repository.git
ac92367..60f0e27 master -> master
21223241@buildhost:~/UWLrepo$

```

Like the previous stages, the files had successfully uploaded to Bb.

**Recent activity**

- Hamza Bhatti pushed 1 commit to HamzaB93/UWL Repository just now  
60f0e27 - edited firstfile random and created a new summary file.
- Hamza Bhatti pushed 1 commit to HamzaB93/UWL Repository 9 minutes ago  
ac92367 - edited firstfile and made new file, random.
- Hamza Bhatti pushed 1 commit to HamzaB93/UWL Repository 30 minutes ago  
c5bd902 - another line was added to firstfile.
- Hamza Bhatti pushed 1 commit to HamzaB93/UWL Repository 35 minutes ago  
dce09a0 - added a line to firstfile for editing.

## 15 Further editing Summary.txt.

I added more information on the Summary.txt files, added, committed and pushed the file.

```
hamza@hafiz-Latitude-D620: ~
GNU nano 2.2.6      File: Summaryfile.txt      Modified

Assignment 1: The method of using terminal and bit bucket

I first created a repo on bitbucket.
I then logged onto UWL ubuntu server.
Next i created a new directory for myself and linked it to bb
I then created a first file using nano and uploaded it to bitbucket by
adding committing and pushing
I edited the first file around 3 times.
Continuing, I created a new random file to edit, and repeated my processes.

Important commands
mkdir. creates a directory or folder
cd. changes the directory
ls. shows a list

The following is the order in which to upload the file to bb
nano. to create a file
git add (with filename). readys the file
git commit -m "with a description.". acknowledges the changes

^G Get Help  ^O WriteOut  ^R Read File  ^Y Prev Page  ^K Cut Text   ^C Cur Pos
^X Exit      ^J Justify   ^W Where Is  ^V Next Page  ^U UnCut Text ^T To Spell
```













```
hamza@hafiz-Latitude-D620: ~
GNU nano 2.2.6      File: Summaryfile.txt      Modified

Important commands
mkdir. creates a directory or folder
cd. changes the directory
ls. shows a list

The following is the order in which to upload the file to bb
nano. to create a file
git add (with filename). readys the file
git commit -m "with a description.". acknowledges the changes
git push origin master. this will upload the added file(s) to bb.
```

```
21223241@buildhost:~/UWLrepo$ nano Summary.txt
21223241@buildhost:~/UWLrepo$ nano Summaryfile.txt
21223241@buildhost:~/UWLrepo$ git add Summaryfile.txt
21223241@buildhost:~/UWLrepo$ git commit -m "added a list of commands to summary
file."
[master 6d30eaa] added a list of commands to summary file.
1 file changed, 10 insertions(+)
21223241@buildhost:~/UWLrepo$ git push origin master
Password for 'https://HamzaB93@bitbucket.org':
To https://HamzaB93@bitbucket.org/HamzaB93/uwl-repository.git
60f0e27..6d30eaa master -> master
21223241@buildhost:~/UWLrepo$
```

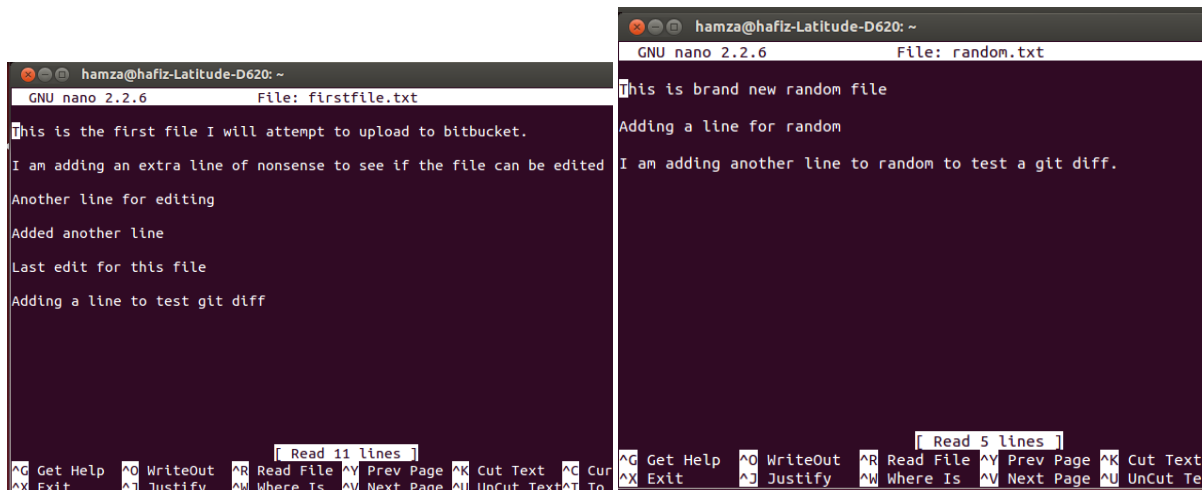
### Recent activity

-   **Hamza Bhatti** pushed 1 commit to [HamzaB93/UWL Repository](#)  
20 seconds ago  
[6d30eaa](#) - added a list of commands to summary file.
-   **Hamza Bhatti** pushed 1 commit to [HamzaB93/UWL Repository](#)  
7 minutes ago  
[60f0e27](#) - edited firstfile random and created a new summary file.
-   **Hamza Bhatti** pushed 1 commit to [HamzaB93/UWL Repository](#)  
17 minutes ago  
[ac92367](#) - edited firstfile and made new file, random.
-   **Hamza Bhatti** pushed 1 commit to [HamzaB93/UWL Repository](#)  
37 minutes ago  
[c5bd902](#) - another line was added to firstfile.
-   **Hamza Bhatti** pushed 1 commit to [HamzaB93/UWL Repository](#)  
42 minutes ago  
[dce09a0](#) - added a line to firstfile for editing.
-   **Hamza Bhatti** pushed 1 commit to [HamzaB93/UWL Repository](#)

## 16 Using the git diff command.

As an added proof of editing actually occurring within the terminal, I used the \$git diff command. When this was entered after editing, the terminal showed what had been added to the files.

The first two print screens are showing what was being added to the firstfile.txt and random.txt files.



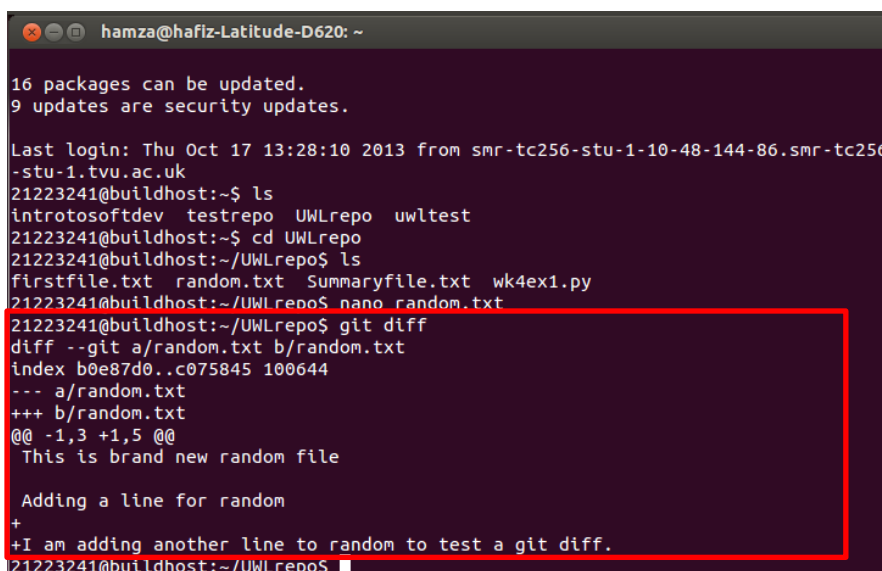
```

hamza@hafiz-Latitude-D620: ~
GNU nano 2.2.6 File: firstfile.txt
This is the first file I will attempt to upload to bitbucket.
I am adding an extra line of nonsense to see if the file can be edited
Another line for editing
Added another line
Last edit for this file
Adding a line to test git diff
[ Read 11 lines ]
^G Get Help ^O WriteOut ^R Read File ^Y Prev Page ^X Cut Text ^C Cur
^X Exit ^J Justify ^W Where Is ^V Next Page ^U UnCut Text ^T To

hamza@hafiz-Latitude-D620: ~
GNU nano 2.2.6 File: random.txt
This is brand new random file
Adding a line for random
I am adding another line to random to test a git diff.
[ Read 5 lines ]
^G Get Help ^O WriteOut ^R Read File ^Y Prev Page ^X Cut Text
^X Exit ^J Justify ^W Where Is ^V Next Page ^U UnCut Te

```

The next print screen shows that I entered the \$git diff command to identify what I have changed in the files.



```

hamza@hafiz-Latitude-D620: ~
16 packages can be updated.
9 updates are security updates.

Last login: Thu Oct 17 13:28:10 2013 from smr-tc256-stu-1-10-48-144-86.smr-tc256
-stu-1.tvu.ac.uk
21223241@buildhost:~$ ls
introsoftdev testrepo UWLrepo uwltest
21223241@buildhost:~$ cd UWLrepo
21223241@buildhost:~/UWLrepo$ ls
firstfile.txt random.txt Summaryfile.txt wk4ex1.py
21223241@buildhost:~/UWLrepo$ nano random.txt
21223241@buildhost:~/UWLrepo$ git diff
diff --git a/random.txt b/random.txt
index b0e87d0..c075845 100644
--- a/random.txt
+++ b/random.txt
@@ -1,3 +1,5 @@
 This is brand new random file

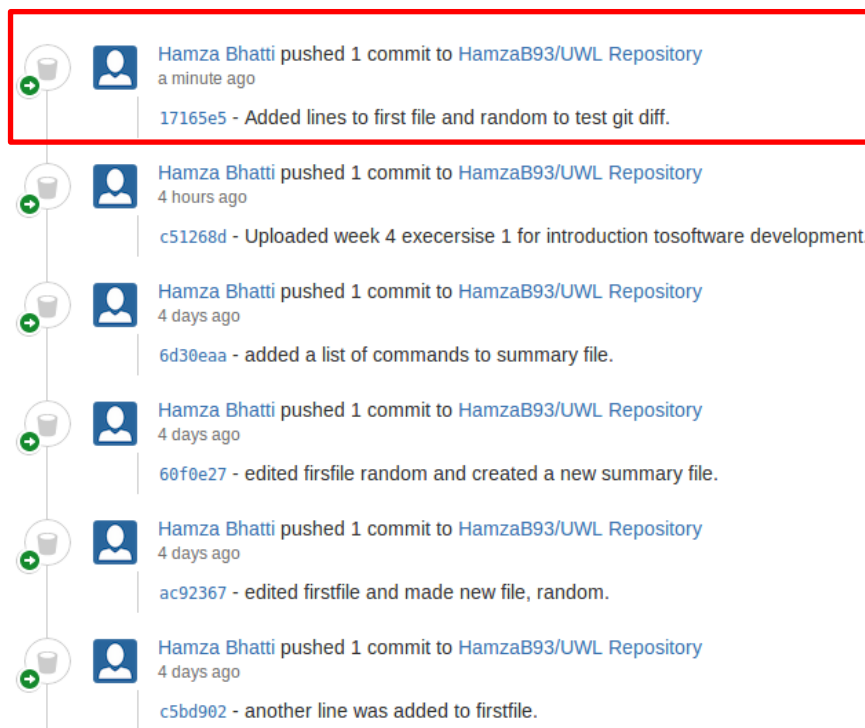
 Adding a line for random
+
+I am adding another line to random to test a git diff.
21223241@buildhost:~/UWLrepo$

```

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hamza@hafiz-latitude-D620: ~
+Adding a line to test git diff
diff --git a/random.txt b/random.txt
index b0e87d0..c075845 100644
--- a/random.txt
+++ b/random.txt
@@ -1,3 +1,5 @@
 This is brand new random file

Adding a line for random
+
+I am adding another line to random to test a git diff.
21223241@buildhost:~/UWLrepo$ nano random.txt
21223241@buildhost:~/UWLrepo$ nano firstfile.txt
21223241@buildhost:~/UWLrepo$ git add random.txt
21223241@buildhost:~/UWLrepo$ git add firstfile.txt
21223241@buildhost:~/UWLrepo$ git commit -m "Added lines to first file and random to test git diff."
[master 17165e5] Added lines to first file and random to test git diff.
 2 files changed, 4 insertions(+)
21223241@buildhost:~/UWLrepo$ git push origin master
Password for 'https://HamzaB93@bitbucket.org':
To https://HamzaB93@bitbucket.org/HamzaB93/uwl-repository.git
 c51268d..17165e5  master -> master
21223241@buildhost:~/UWLrepo$
```

The files were then pushed onto Bb as shown below. The commit description identified that the files uploaded were to test the git diff function.



## Summary of using the repository

As shown throughout this section of the document, I was able to create files within the terminal and upload them to my Bit bucket account.

## Evaluation

The task that I had to complete for this assignment was to create a code repository and demonstrate that I can use it effectively.

Overall I felt that this was a simple task. The task was not over complicated in the sense that I needed to memorise a large amount of commands. The assignment required me to learn around 5 commands.

Although this was a simple task to complete, I did find myself making minor mistakes when I first attempted the task. As this was the case, I made multiple practice repos on Bit bucket. This was useful as I then knew when certain commands would be used and the stages they were needed.

Mistakes that I had made initially included me missing out an essential command which was \$git init. This was needed to ensure that the directory that I had created could link to my Bit bucket account. I then revisited my notes and found that I had missed it.

I also missed out the \$git diff command before committing the files that were edited. This function was used to identify what changes had actually been made to the files in the terminal.

While writing the commands in the terminal, I needed to print screen the commands as evidence that the repo was working. When doing this I found that typing the commands, seeing that it worked and making the screenshot was easier than compiling them into word document. When I had finished writing my commands, I had ended up with around 30 screenshots. Cropping the pictures was time consuming, along with drawing the red highlight box needed to be positioned to areas of interest.

In a future project, I feel that I will have to read up more about the task, from lecture notes etc. to better understand the processes of the task. This would allow me to know exactly what I am meant to enter into terminal beforehand, without making too many mistakes.

Overall I feel that I had performed well in the task and provided evidence that I can effectively use a code repository to store files online.