



SVN INSTRUCTIONS

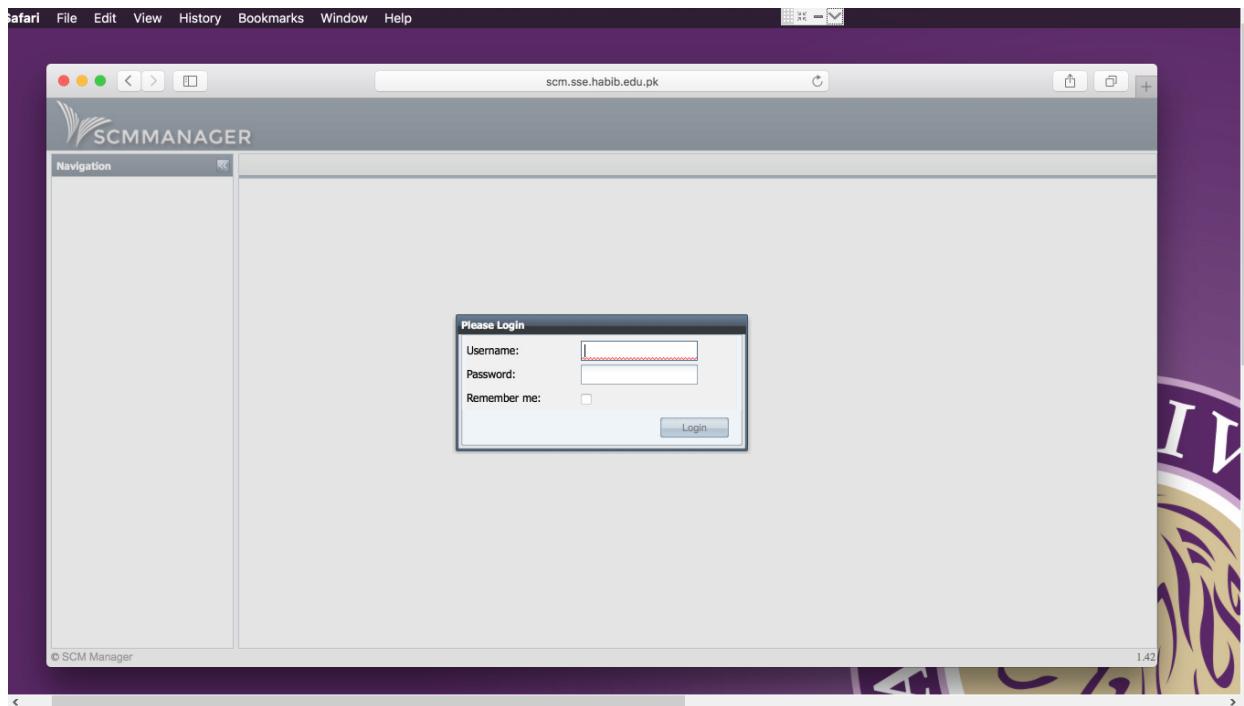
For Mac OSx Yosemite



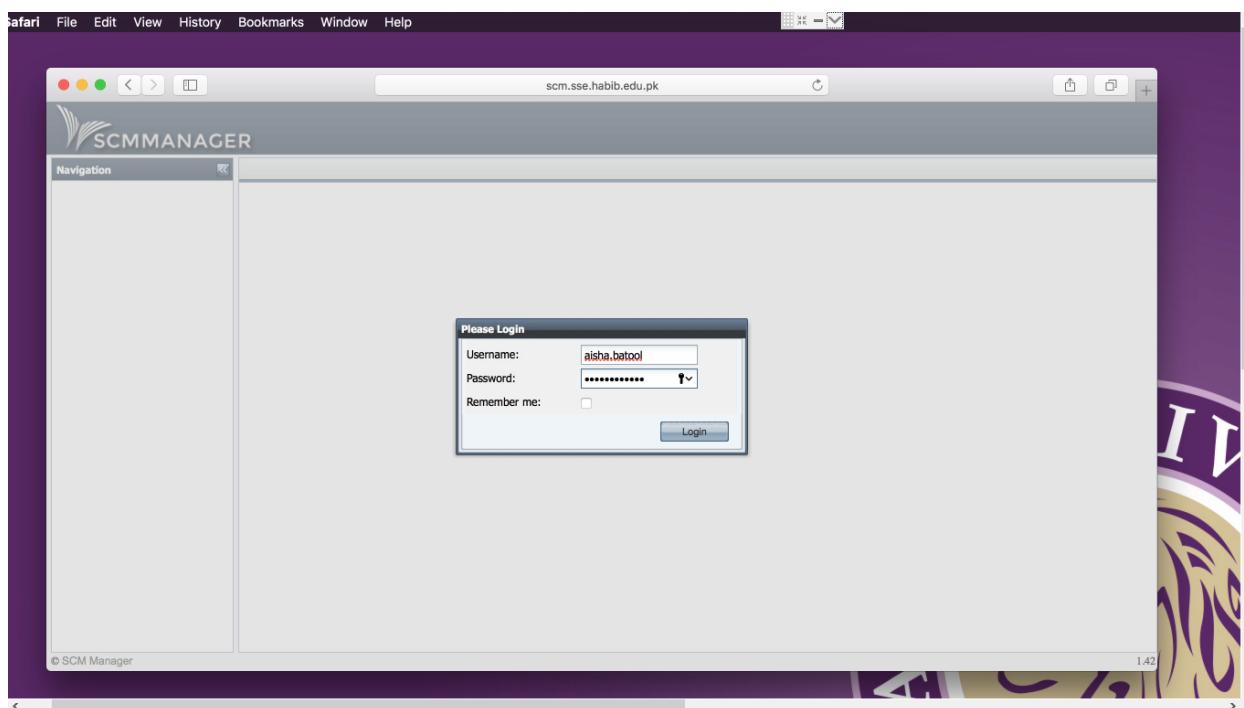
HABIB UNIVERSITY
SCHOOL OF SCIENCE AND ENGINEERING
COMPUTER SCIENCE DEPARTMENT

Step#1 - Checkout Command

1. SSE has an in-house SVN repository which can be accessed at: <http://scm.sse.habib.edu.pk>
Go to the following website: <http://scm.sse.habib.edu.pk>



2. You will have to **login** using your **Habib credentials**.
Enter your **username** and **password**.



3. A screen will appear showing **repositories:**

The screenshot shows a web browser window for the URL `scm.sse.habib.edu.pk`. The title bar says "scm.sse.habib.edu.pk". The main content area is titled "SCMMANAGER". On the left, there is a "Navigation" sidebar with links for "Main", "Repositories", "Security", "Group Manager", and "Log out". The "Repositories" link is currently selected. The main panel is titled "Repositories" and contains a table with the following data:

Name	Contact	Description	Creation date	Url
Document (1 Repository)				
IntroToLinux	fahd.aziz@sse.habib.edu.pk	Introduction To Linux Docum...	2014-08-26 16:03:26	http://scm.sse.habib.edu.pk/svn/Document/introToLinux
main (2 Repositories)				
CS224-Fall16	qasim.pasta@sse.habib.edu...	Course material for the Fall 2...	2016-08-15 14:05:49	http://scm.sse.habib.edu.pk/svn/CS224-Fall16
aisha.batool	aisha.batool@sse.habib.edu...		2016-08-19 12:41:03	http://scm.sse.habib.edu.pk/svn/aisha.batool

Below the table, there is a "Repository Form" section with the placeholder text "Add or select an Repository". The bottom right corner of the window shows the text "logged in as aisha.batool - 1.42".

4. Select your **repository by clicking on it.**

This screenshot shows the same web browser window as the previous one, but the "aisha.batool" repository is now selected. The table row for "aisha.batool" is highlighted with a blue background. The bottom part of the interface displays detailed information about this repository:

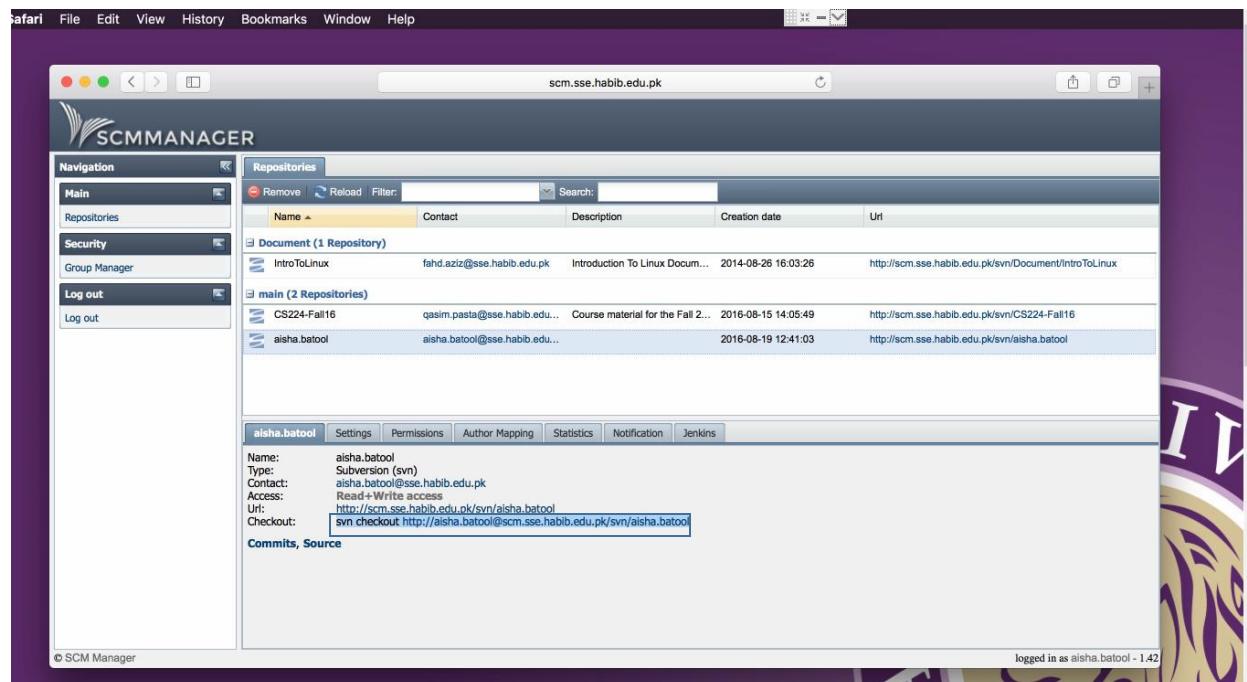
Name:	aisha.batool
Type:	Subversion (svn)
Contact:	aisha.batool@sse.habib.edu.pk
Access:	Read+Write access
Url:	http://scm.sse.habib.edu.pk/svn/aisha.batool
Checkout:	http://aisha.batool@scm.sse.habib.edu.pk/svn/aisha.batool

Below the table, there are two buttons: "Commits" and "Source". The bottom right corner of the window shows the text "logged in as aisha.batool - 1.42".

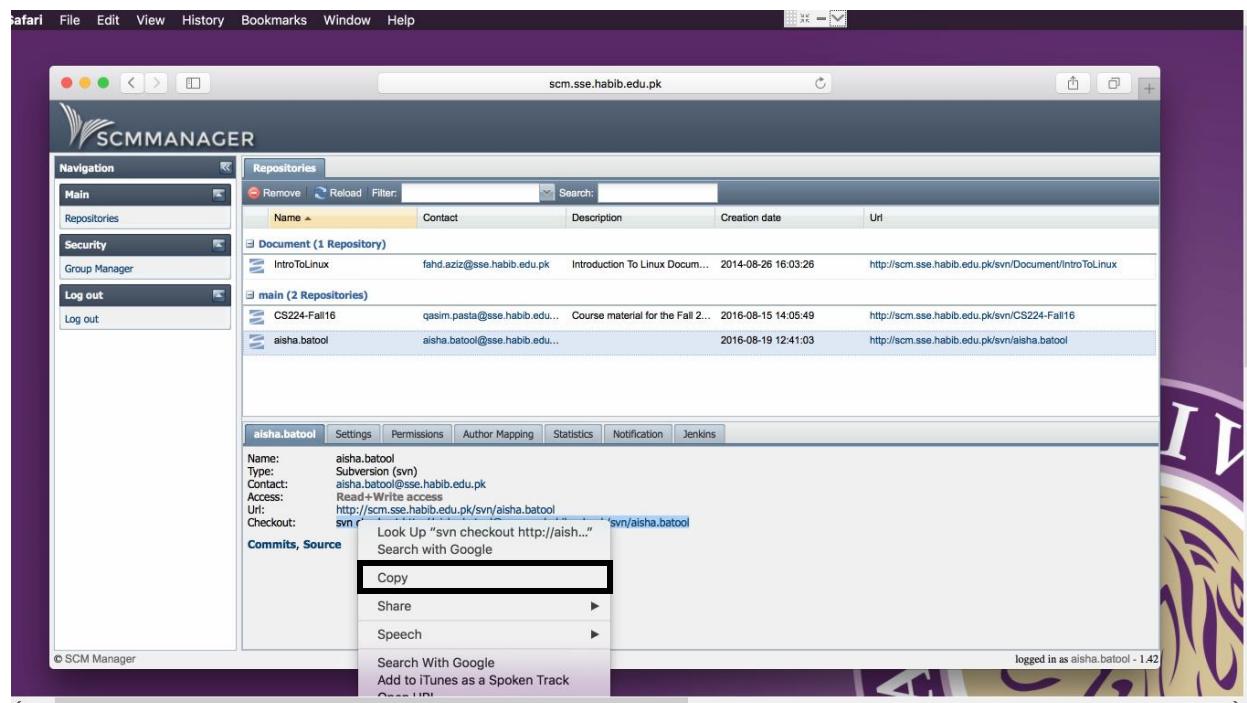
5. Copy the checkout command from the webpage.

It is at the bottom of the page when you click on your repository.

It begins with: **svn checkout**.

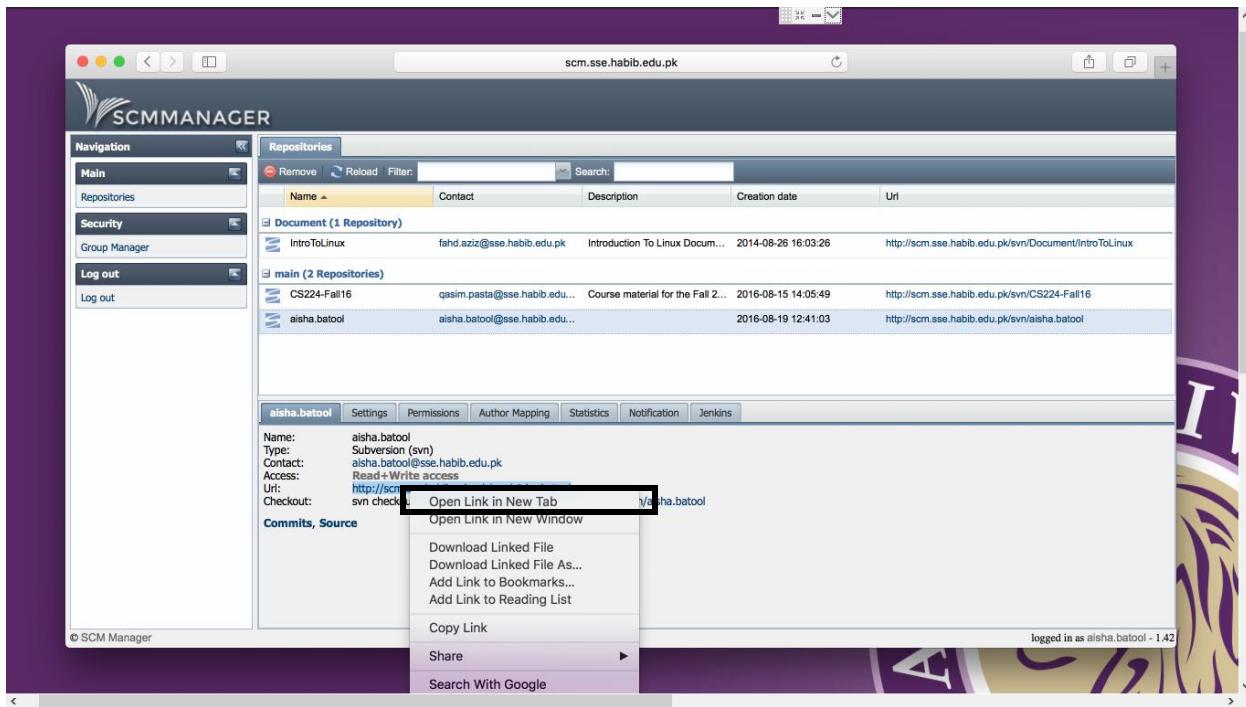


The screenshot shows the SCManager interface in a web browser. The left sidebar has 'Repositories' selected. The main area displays two repositories: 'IntroToLinux' and 'main (2 Repositories)'. Under 'main', there are entries for 'CS224-Fall16' and 'aisha.batool'. The 'aisha.batool' entry is selected, showing its details: Name: aisha.batool, Type: Subversion (svn), Contact: aisha.batool@sse.habib.edu.pk, Access: Read+Write access, Url: http://scm.sse.habib.edu.pk/svn/aisha.batool, and Checkout: svn checkout http://aisha.batool@scm.sse.habib.edu.pk/svn/aisha.batool. A tooltip over the 'Checkout' field shows the full URL. Below the details, there are tabs for 'Commits', 'Source', and other settings. The status bar at the bottom right says 'logged in as aisha.batool - 1.42'.

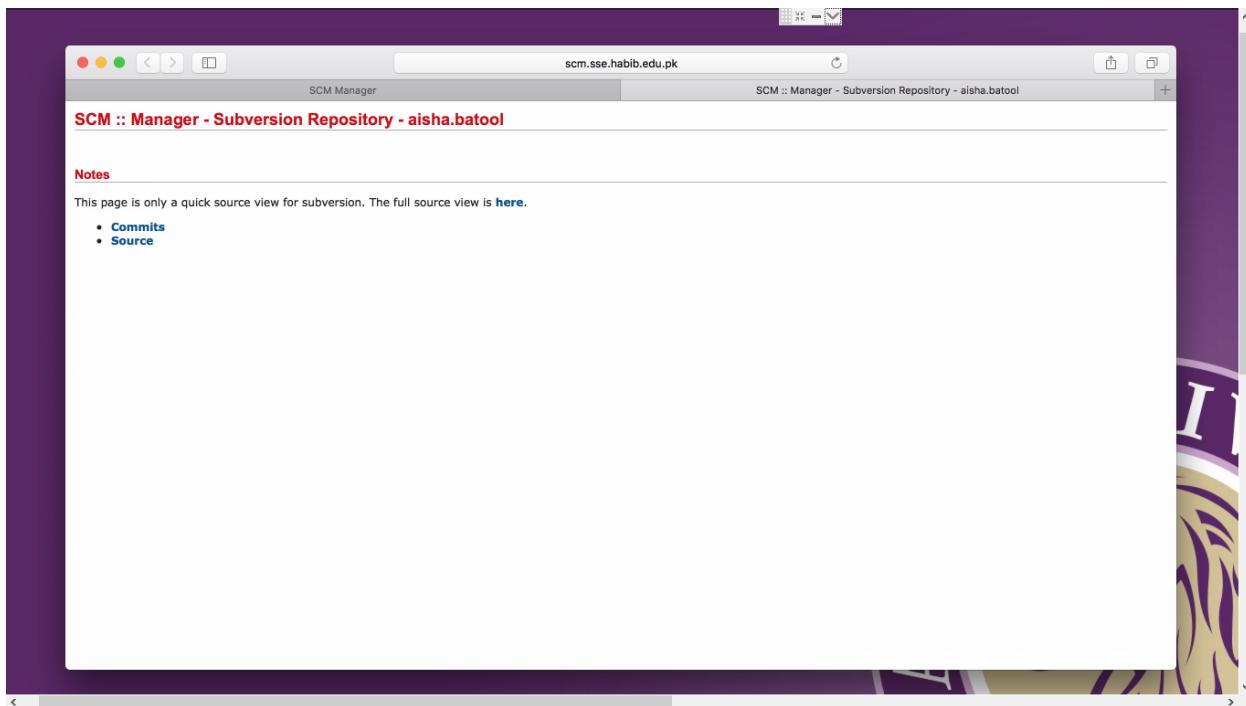


This screenshot shows the same SCManager interface, but a context menu is open over the 'Checkout' field in the 'aisha.batool' repository details. The menu options are 'Copy', 'Share', 'Speech', 'Search With Google', and 'Add to iTunes as a Spoken Track'. The status bar at the bottom right still shows 'logged in as aisha.batool - 1.42'.

6. Open the **Url** of your **repository** to view the **content** of your repository.

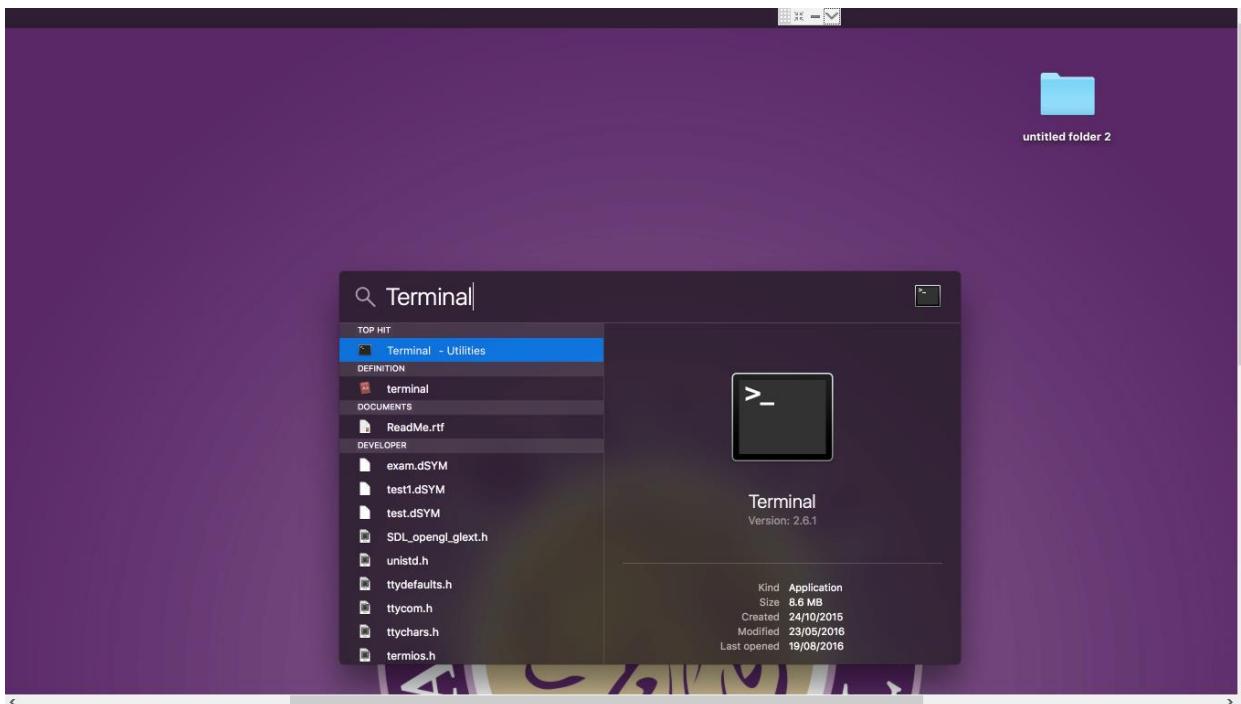
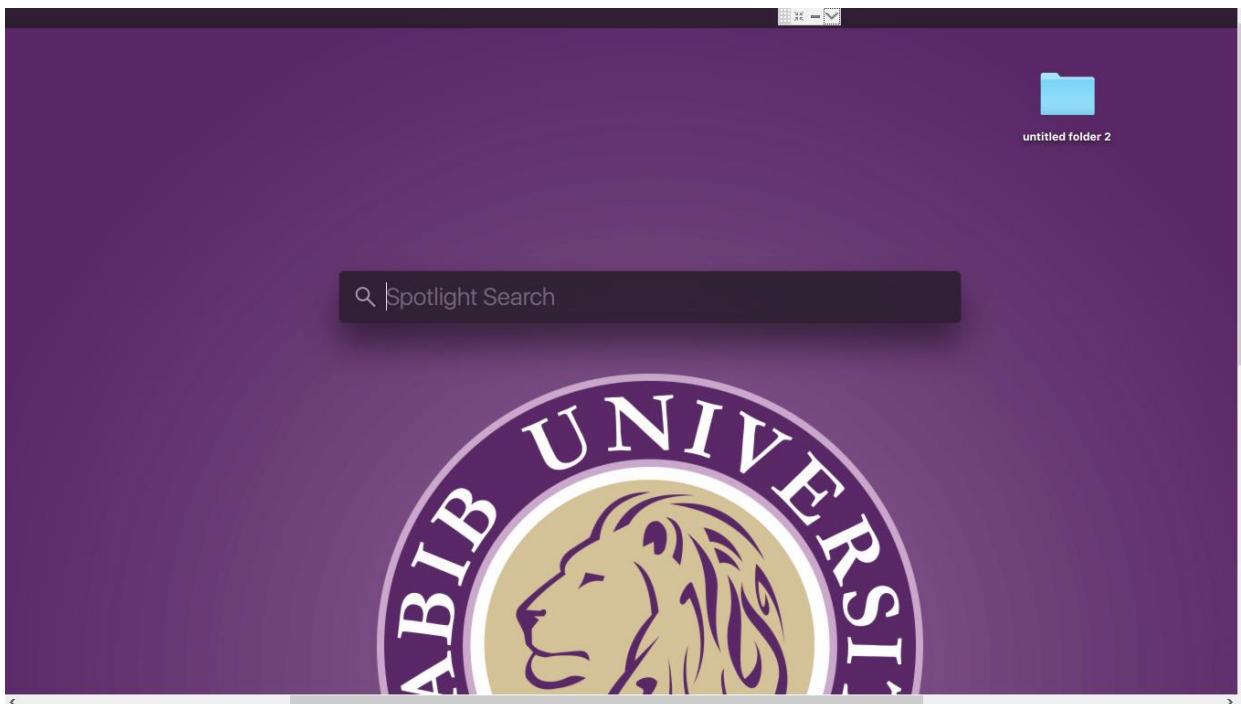


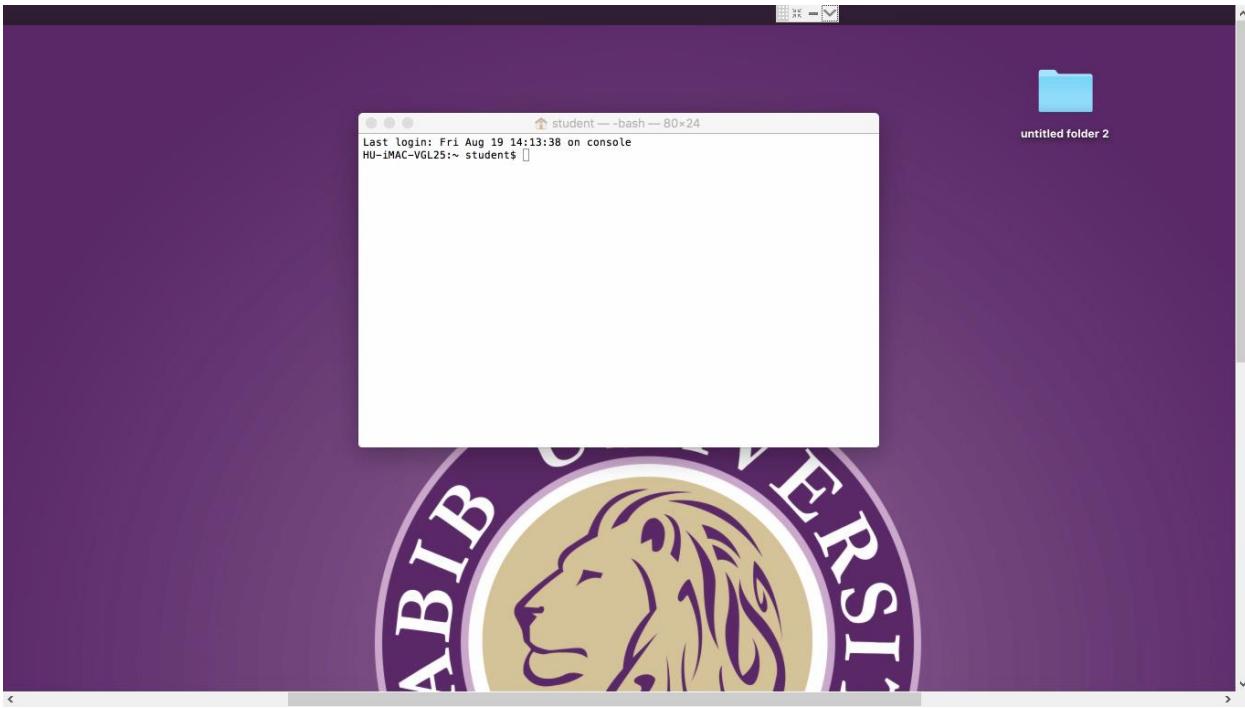
7. You can view the content of your repository on this URL.
Since there is no content in repository right now, it is empty.



Step#2 - Open Terminal

1. Press **Command + Space** on your keyboard. This will bring up a **Search Bar**. Type 'Terminal' into it and select the Terminal application that appears as a result.



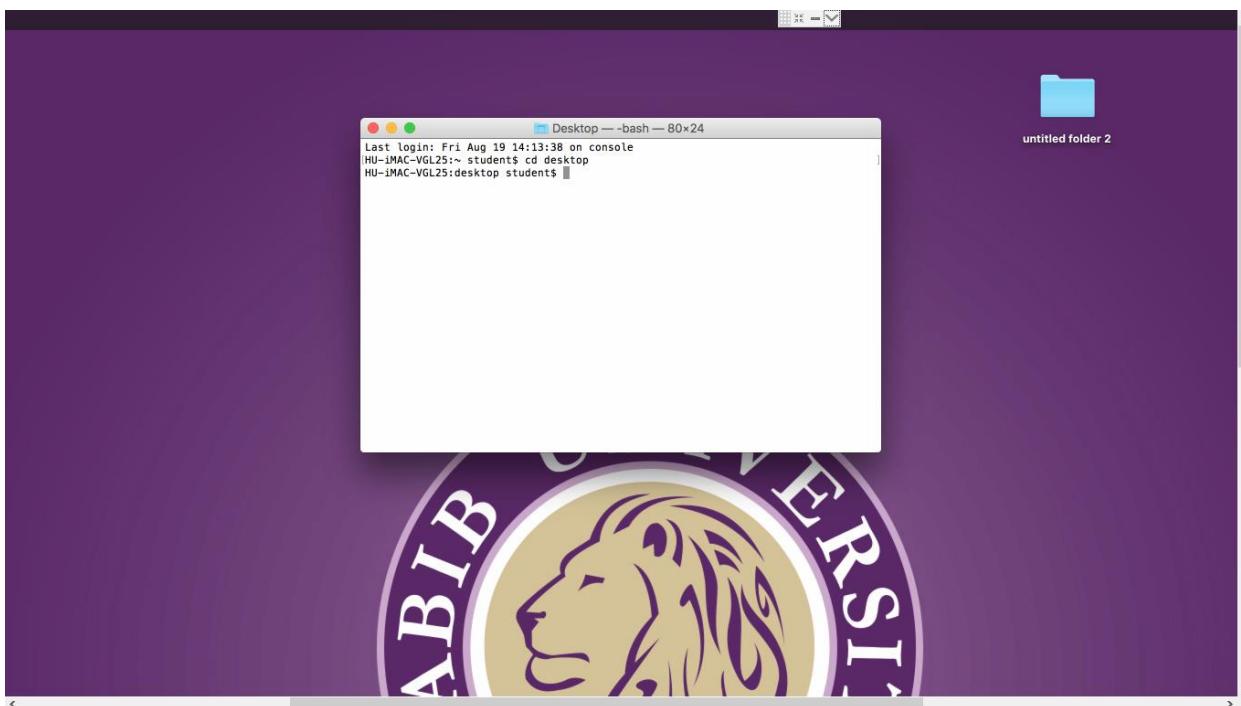
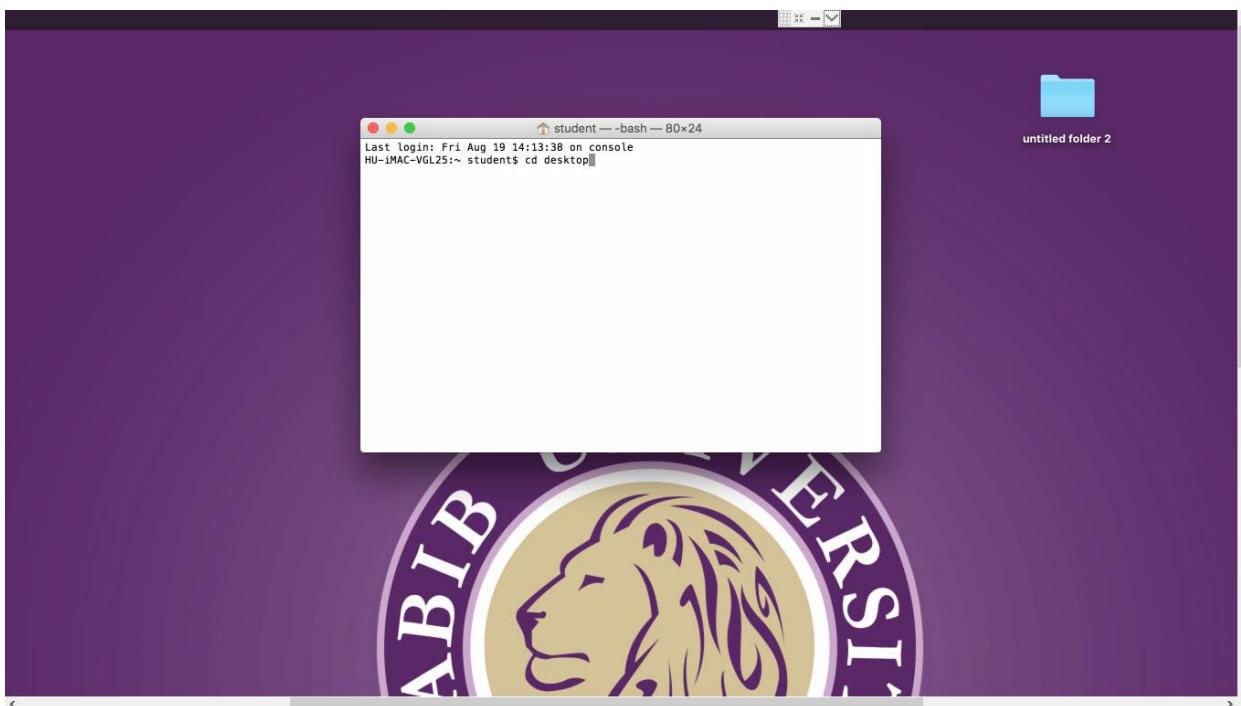


Step#3 - Go to Desktop in Terminal

1. In Terminal,

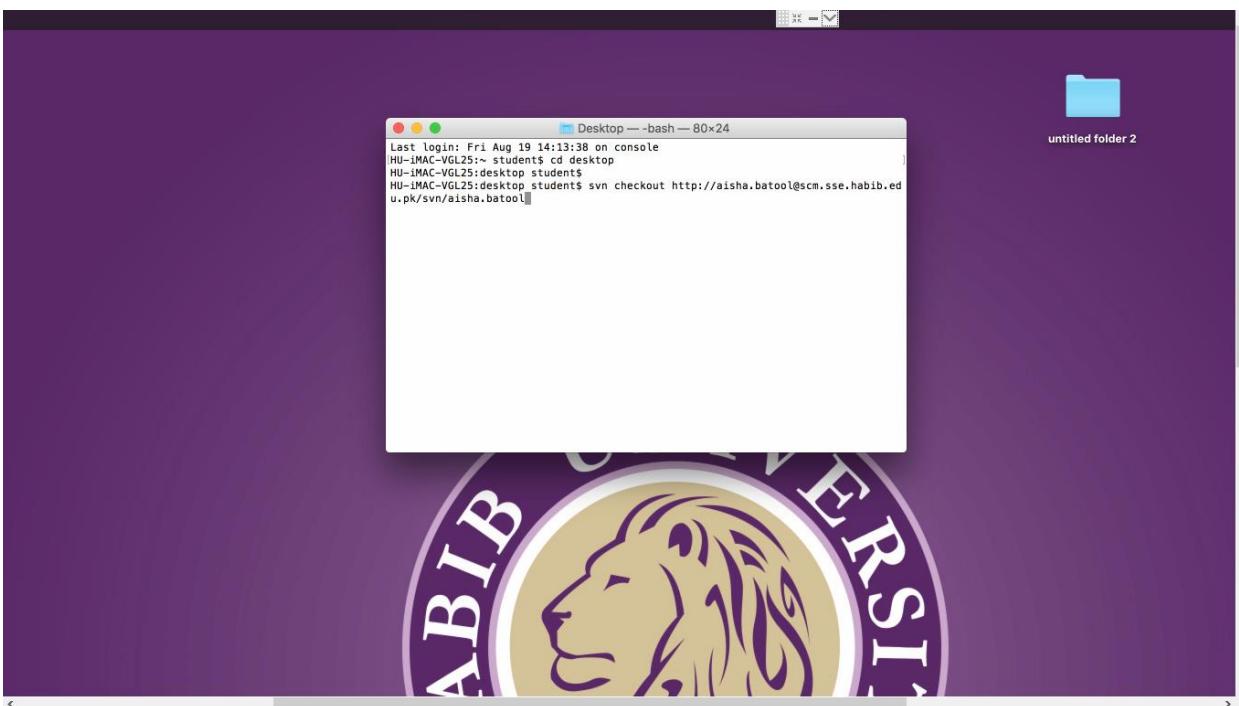
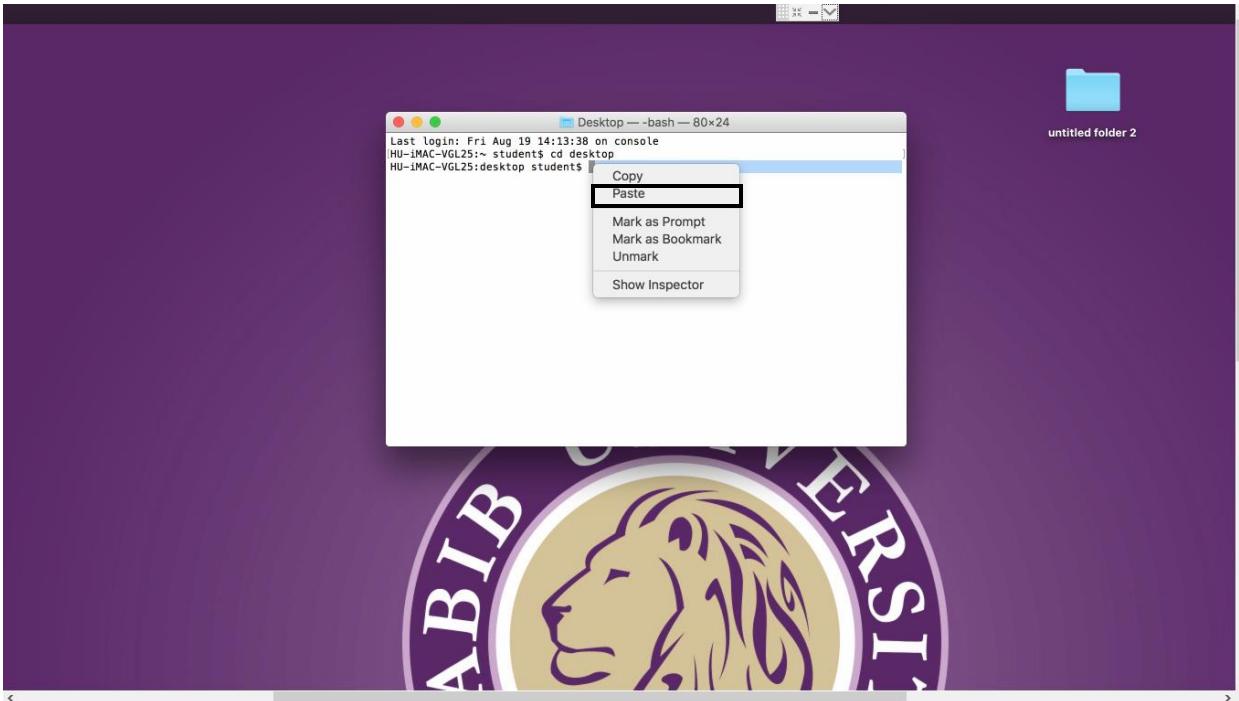
Type: **cd Desktop**

And press **Enter**.

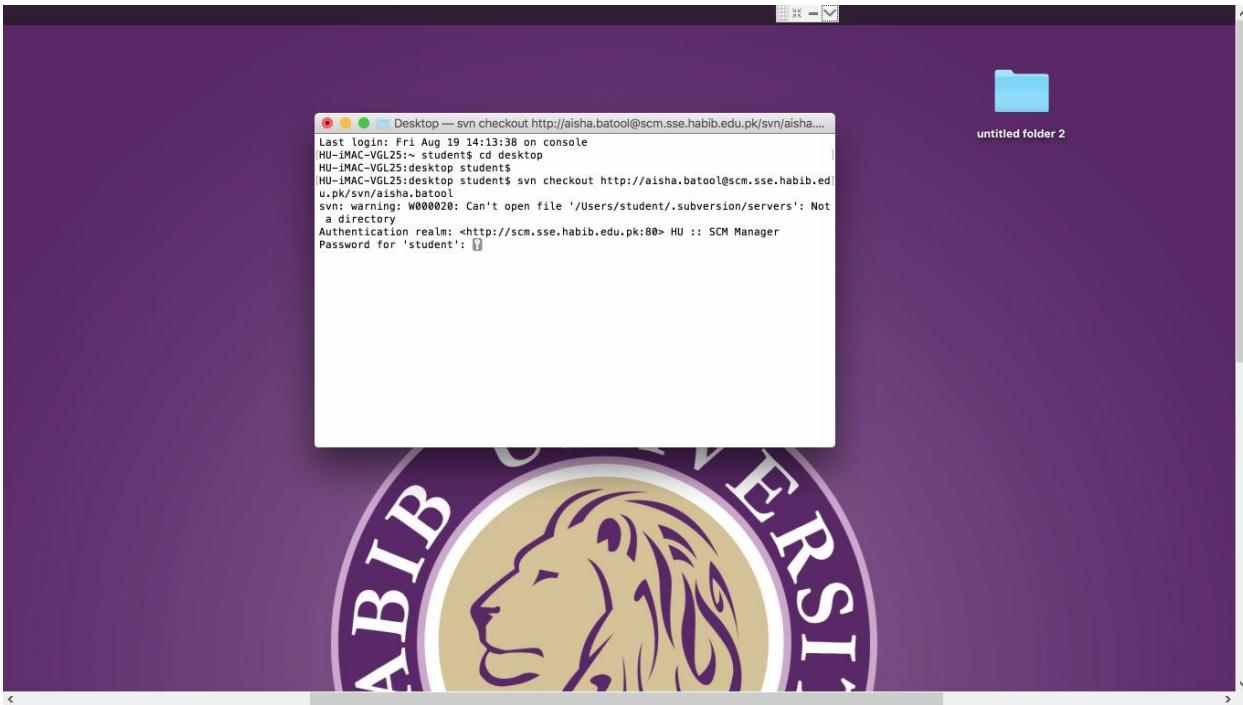


Step#4- Checkout the repository:

1. In Terminal, paste the copied **svn checkout** command from Step 1 above and press **Enter**.

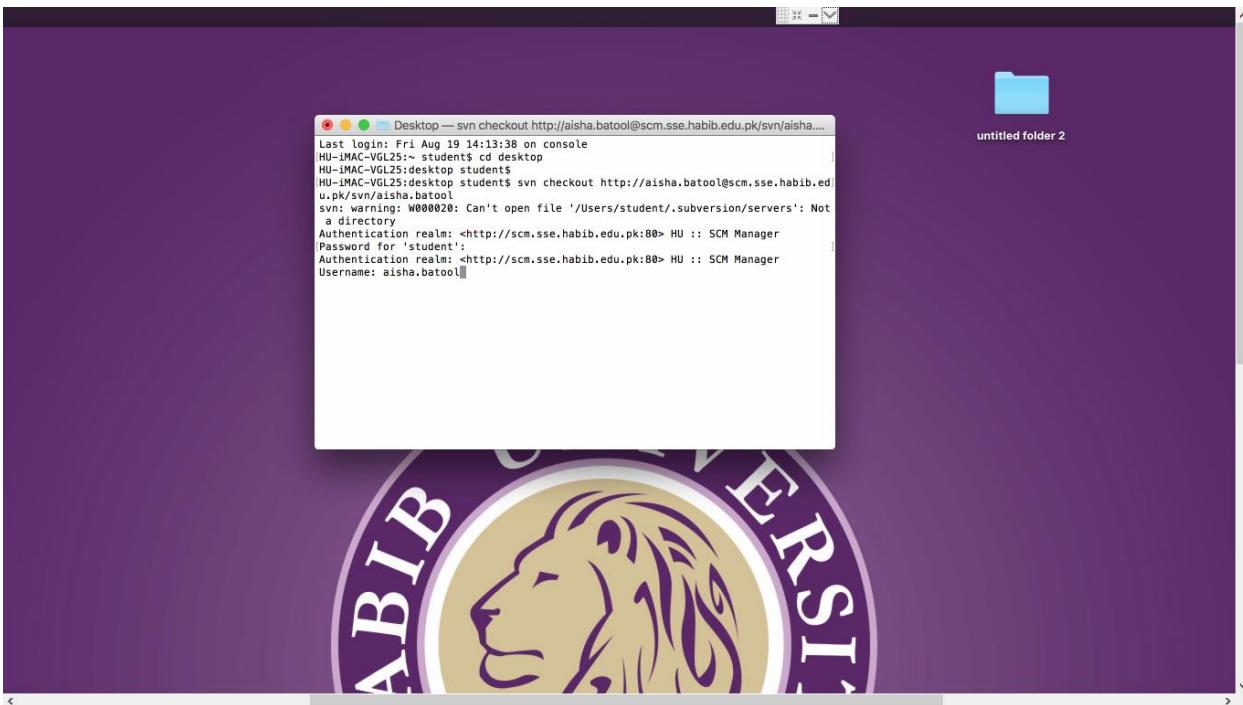


2. Type **password for **local pc user** (i.e. student):**

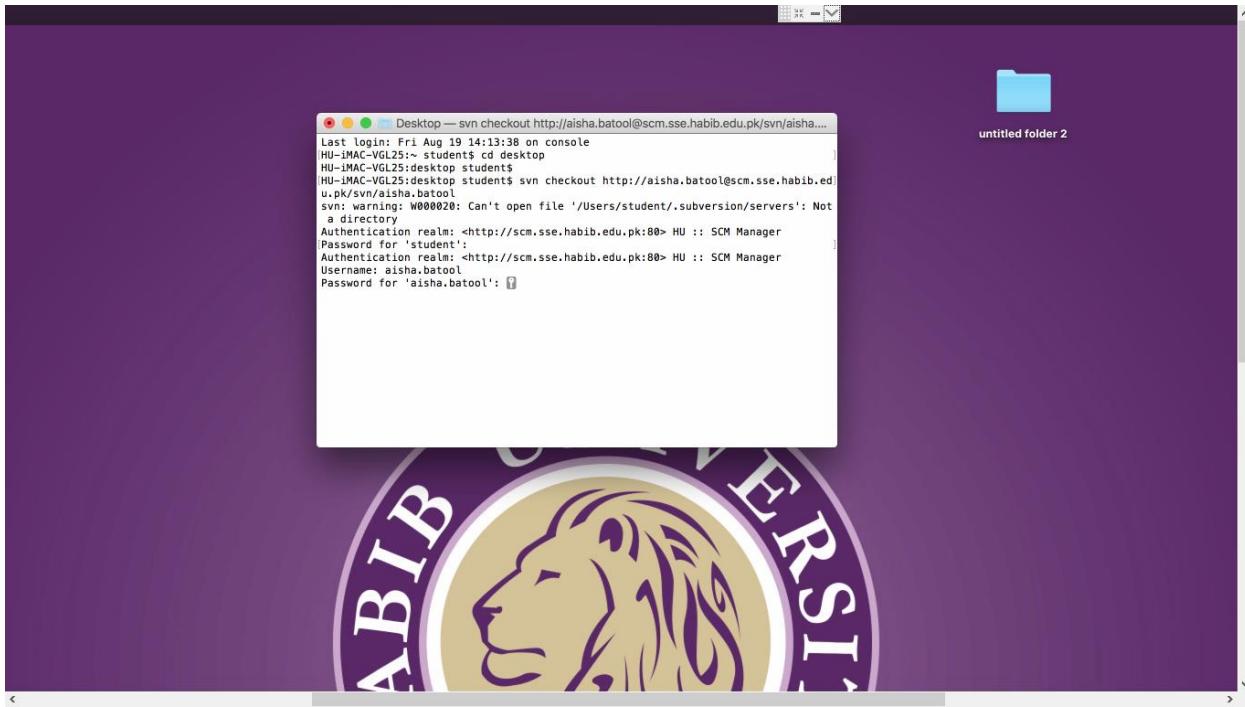


3. You will be asked to **login. Do so with your **Habib credentials**.**

Type your SVN account **username** (i.e. your HU username).



4. Type your SVN account **password** (i.e. your HU account password):

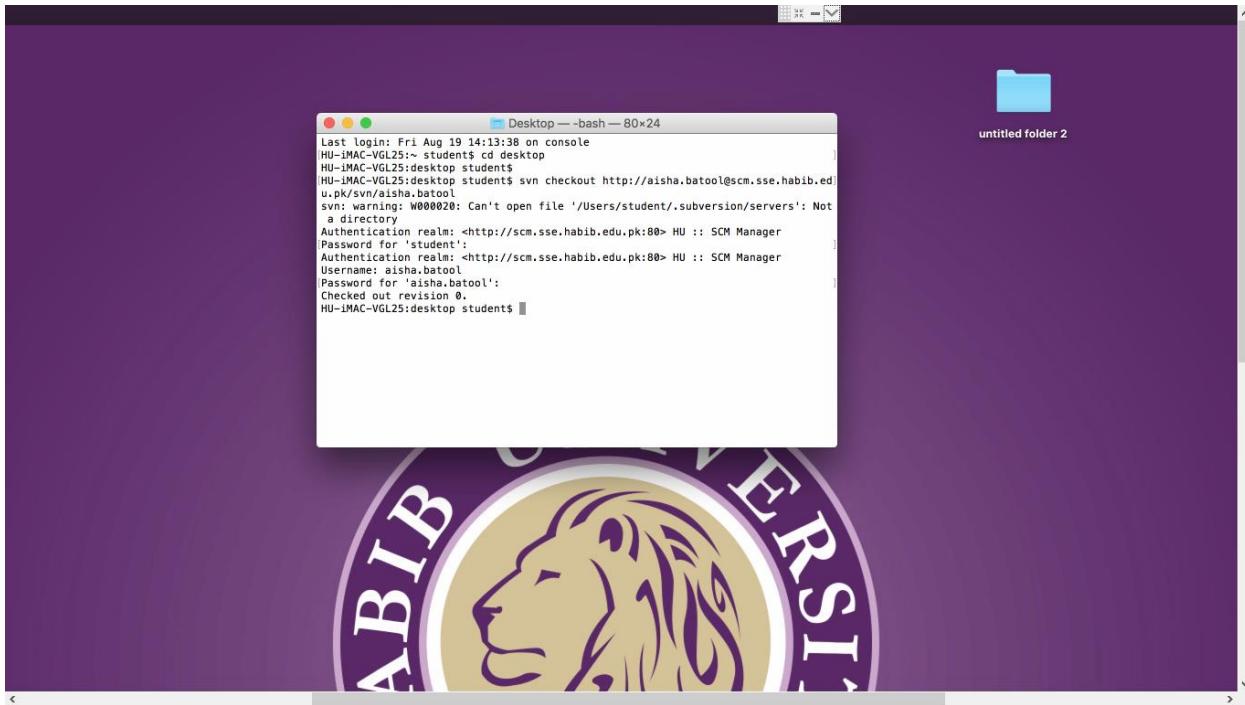


A screenshot of a Mac OS X desktop. In the center is a terminal window titled "Desktop — svn checkout http://aisha.batool@scm.sse.habib.edu.pk/svn/aisha...". The window contains the following text:

```
Last login: Fri Aug 19 14:13:38 on console
HU-IMAC-VGL25:~ student$ cd desktop
HU-IMAC-VGL25:desktop students$ HU-IMAC-VGL25:desktop student$ svn checkout http://aisha.batool@scm.sse.habib.edu.pk/svn/aisha.batool
svn: warning: W000020: Can't open file '/Users/student/.subversion/servers': Not
a directory
Authentication realm: <http://scm.sse.habib.edu.pk:80> HU :: SCM Manager
Password for 'student':
Authentication realm: <http://scm.sse.habib.edu.pk:80> HU :: SCM Manager
Username: aisha.batool
Password for 'aisha.batool': [REDACTED]
```

The desktop background features a circular logo with a lion's head and the text "HABIB UNIVERSITY". A blue folder icon labeled "untitled folder 2" is visible in the top right corner.

5. You have **checkout** the **repository** successfully.



A screenshot of a Mac OS X desktop, identical to the previous one, showing a terminal window with the same SVN checkout command output. The terminal window is titled "Desktop — -bash — 80x24". The text inside is identical to the previous screenshot.

```
Last login: Fri Aug 19 14:13:38 on console
HU-IMAC-VGL25:~ student$ cd desktop
HU-IMAC-VGL25:desktop students$ HU-IMAC-VGL25:desktop student$ svn checkout http://aisha.batool@scm.sse.habib.edu.pk/svn/aisha.batool
svn: warning: W000020: Can't open file '/Users/student/.subversion/servers': Not
a directory
Authentication realm: <http://scm.sse.habib.edu.pk:80> HU :: SCM Manager
Password for 'student':
Authentication realm: <http://scm.sse.habib.edu.pk:80> HU :: SCM Manager
Username: aisha.batool
Password for 'aisha.batool':
Checked out revision 0.
HU-IMAC-VGL25:desktop student$ [REDACTED]
```

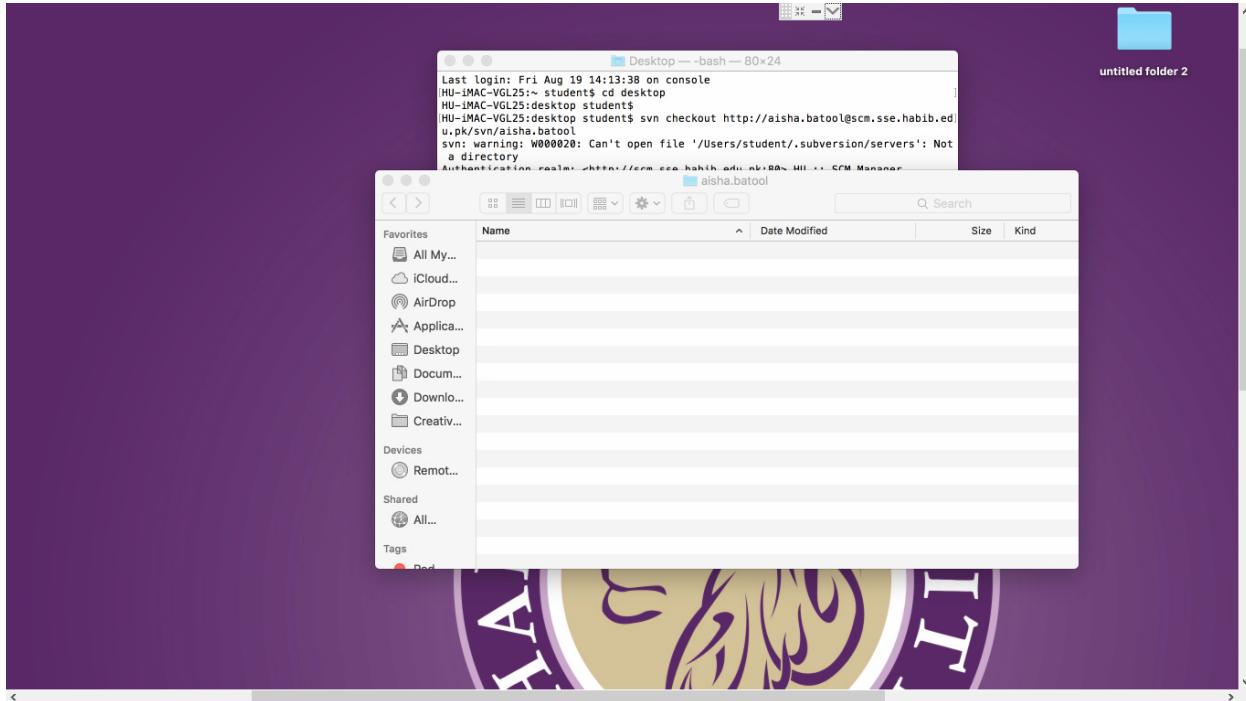
The desktop background and folder icon are also identical to the first screenshot.

6. This will create a **folder** on your Desktop with same name as **your ID/your repository name**. Inspect your Desktop to confirm.

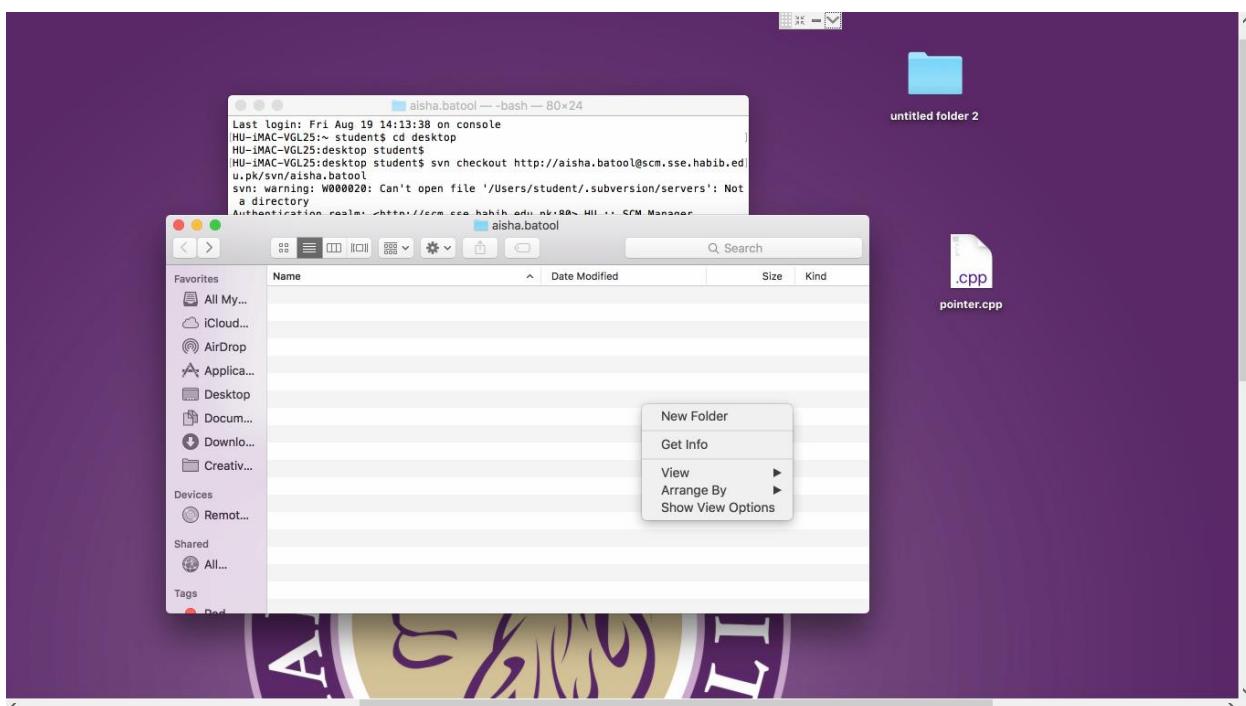


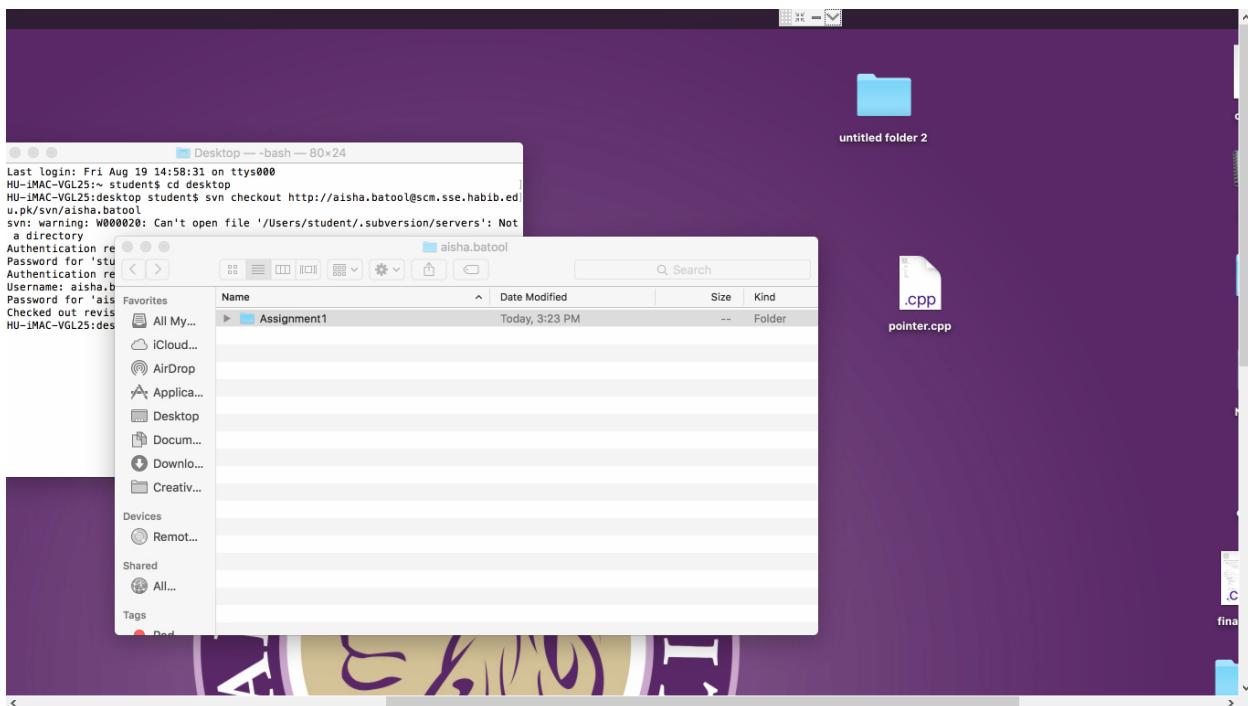
Step#5 - Setup your files

1. Using the mouse, open the folder created in Step 4 above.
The folder is empty since our repository was empty.

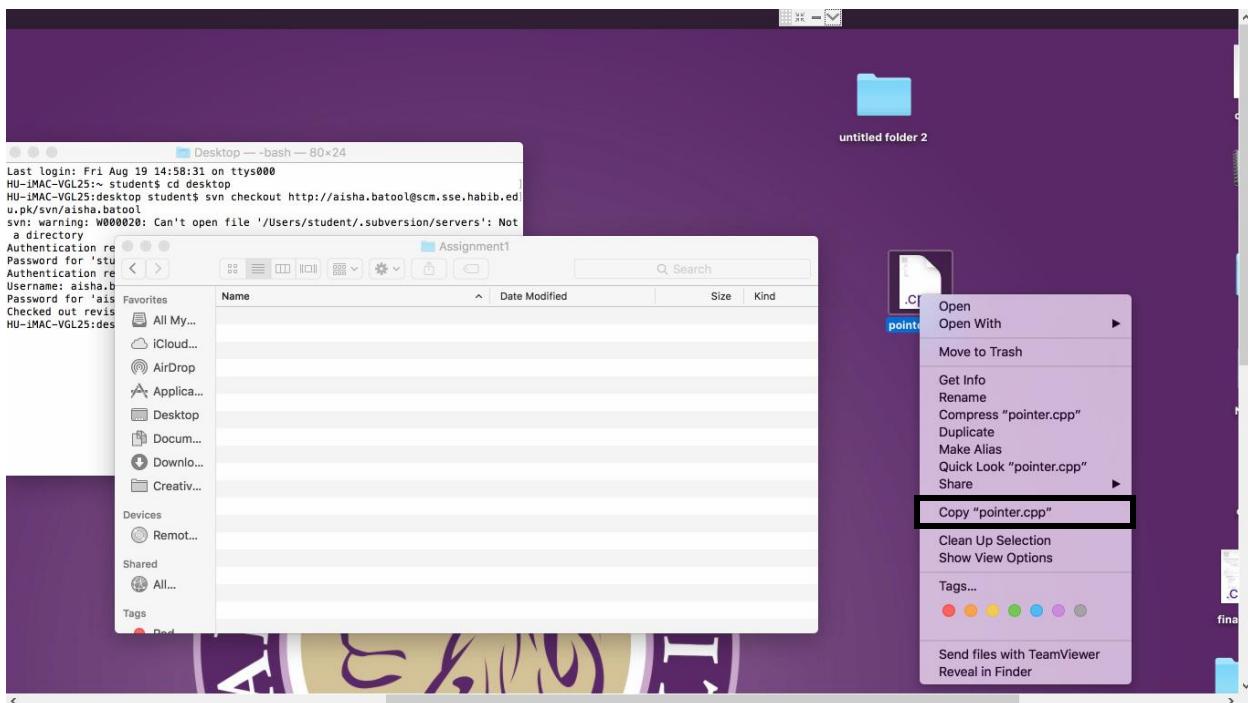


2. Create a new folder.
Rename it as **Assignment1**.

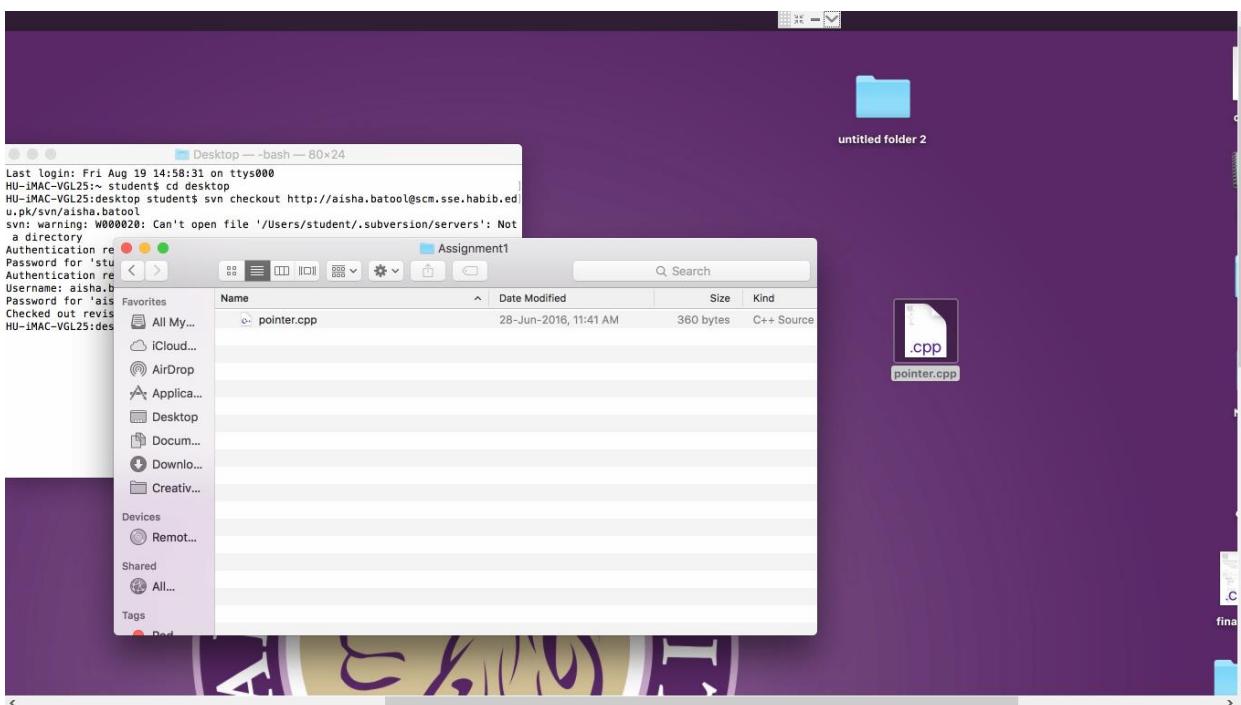
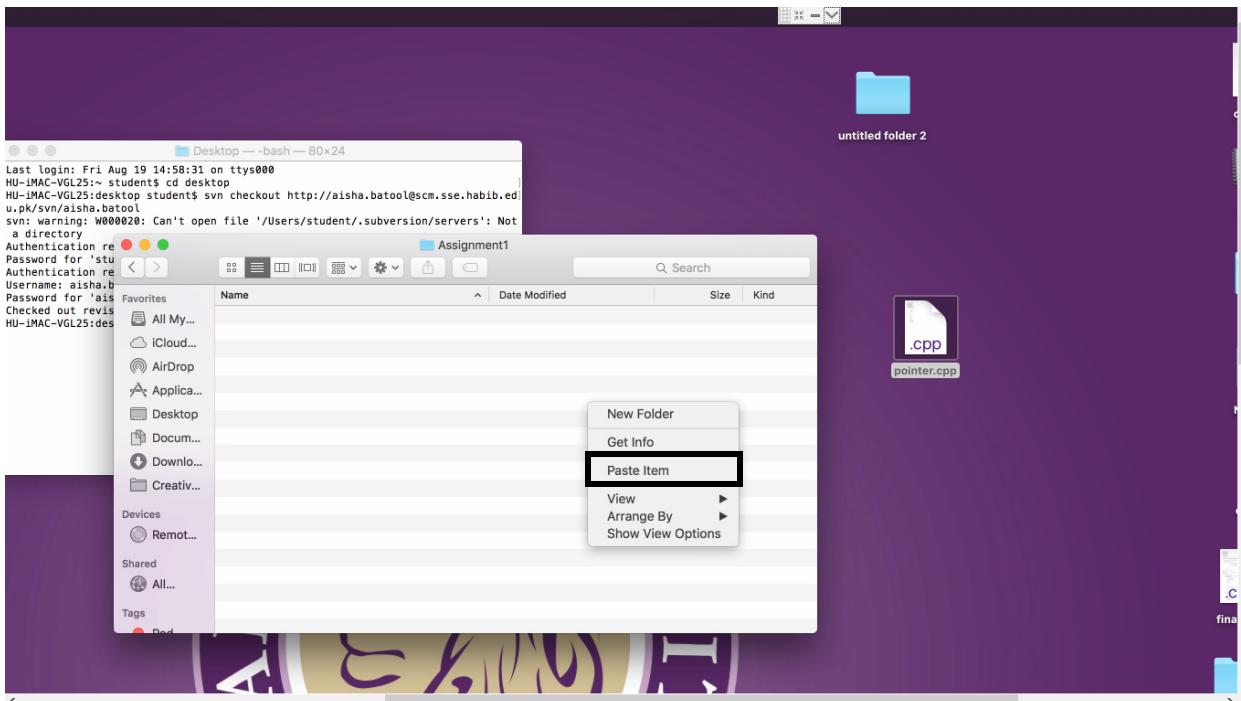




3. Copy pointer.cpp file.



4. Paste the `pointer.cpp` file inside Assignment1 folder.



5. Click on pointer.cpp file to check the content of the file.



```
#include <iostream>
#include <cstdio>
#include <ctime>
#include <cstdlib>
#include <vector>
#include <time.h>
#include <algorithm>
using namespace std;

void swap1(int * a, int * b)
{
    int temp;
    temp = *a;
    *a = *b;
    *b = temp;
}

int main()
{
    int a = 4;
    int b = 6;

    int * p;
    p = &a;

    int * q;
    q = &b;

    swap1(p, q);
    cout<<a<<endl;
    cout<<b<<endl;
}
```

Step#6 - Navigate to your working copy

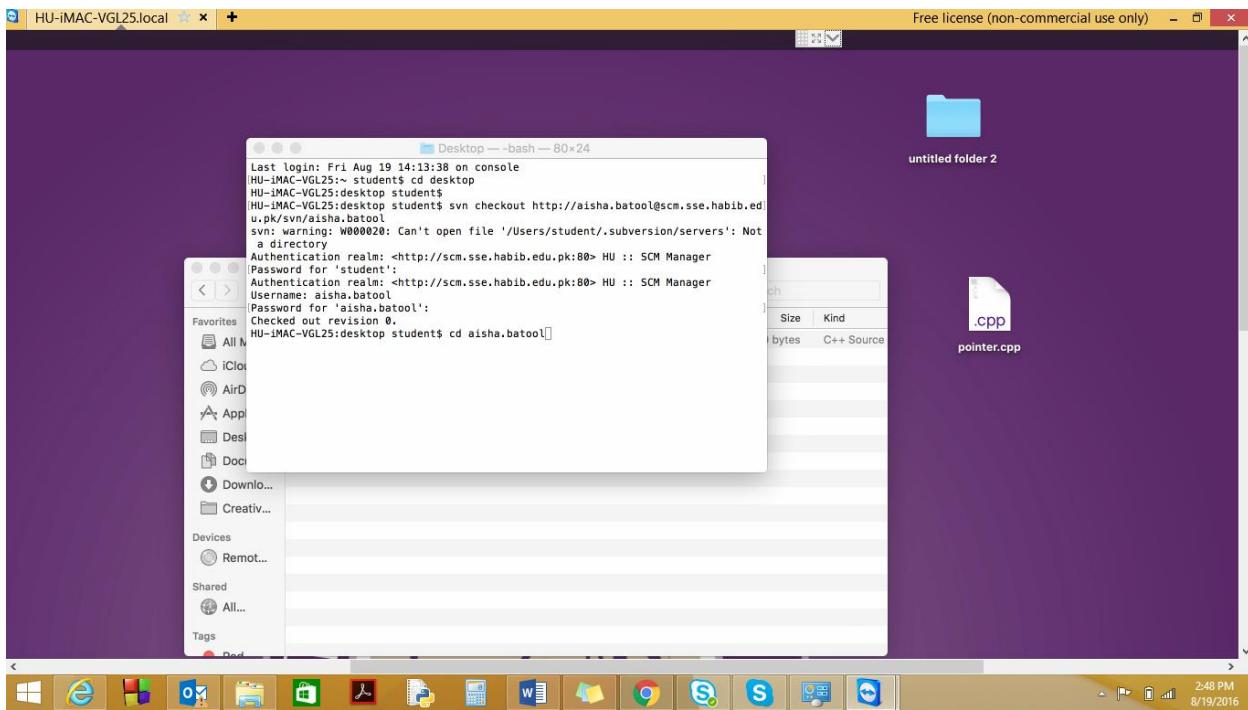
1. In Terminal, go to the folder with the same name as your id.

This is the folder you created in Step 4.

Type: **cd <id/repository-name>**

And press **Enter**.

Note: <id/repository-name> will have to be replaced with the name of the folder, i.e. your id/repository name.

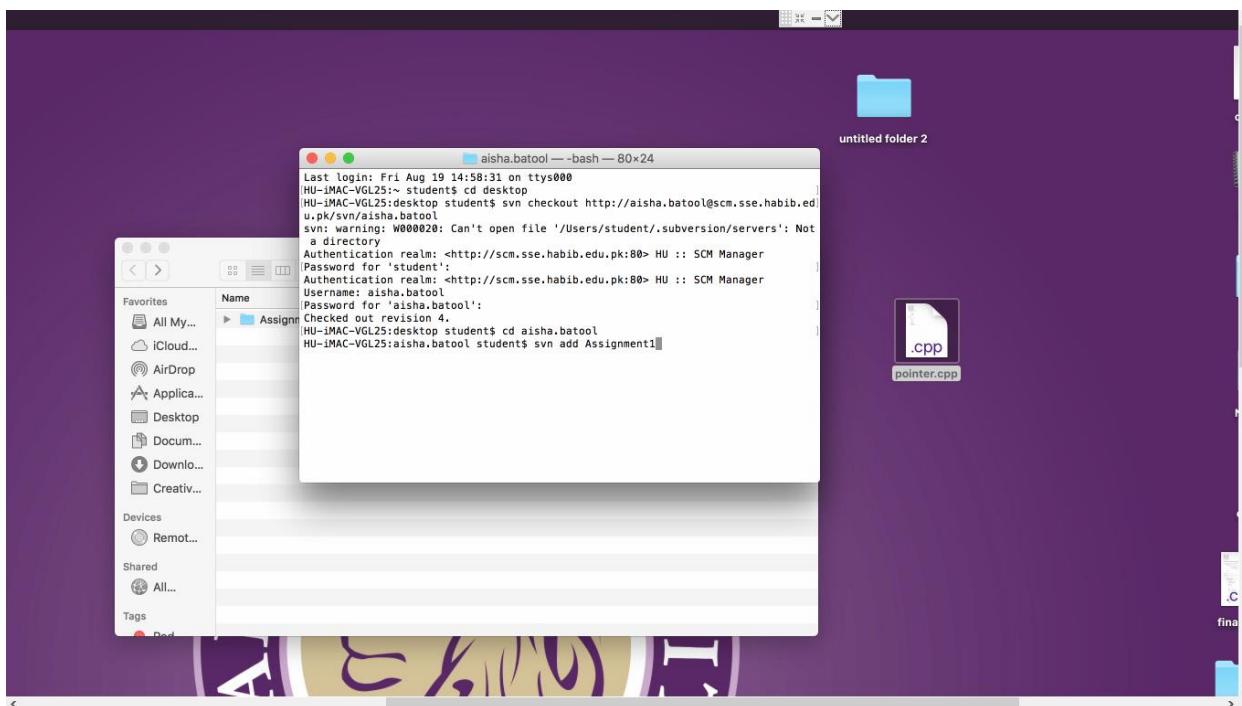


Step#7 - Add files to your repository

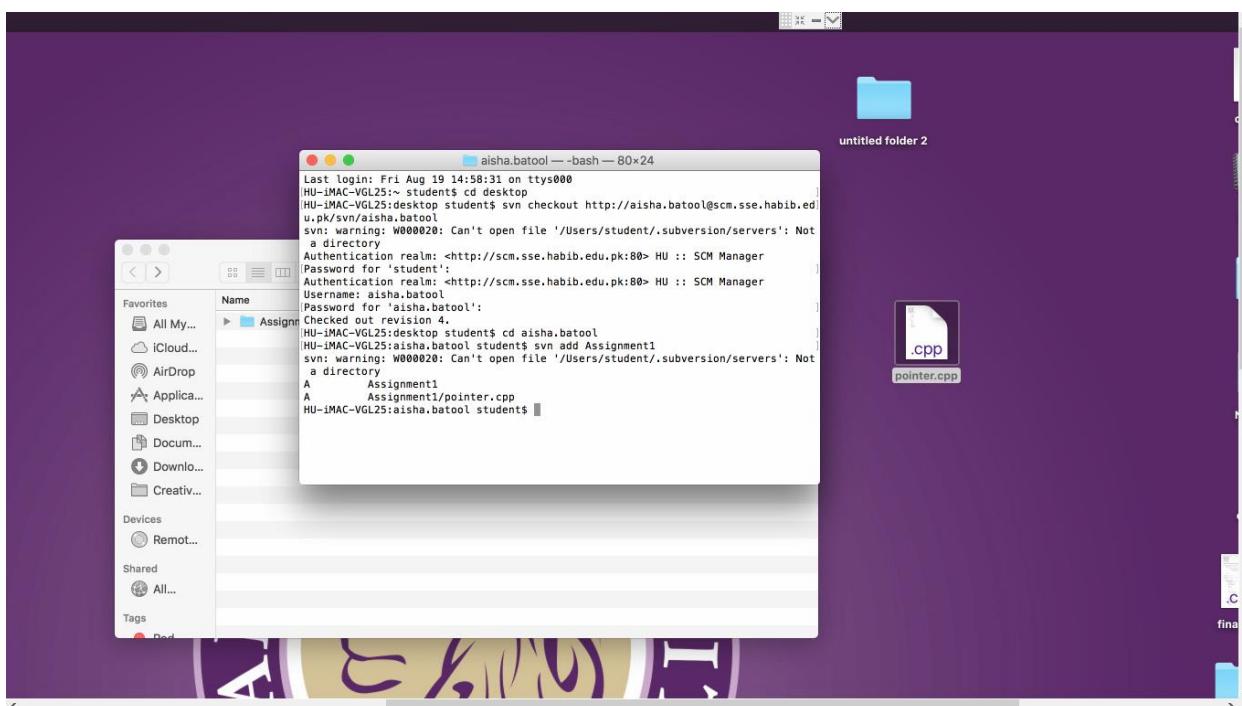
1. In Terminal,

Type: **svn add Assignment1**

And press **Enter**.

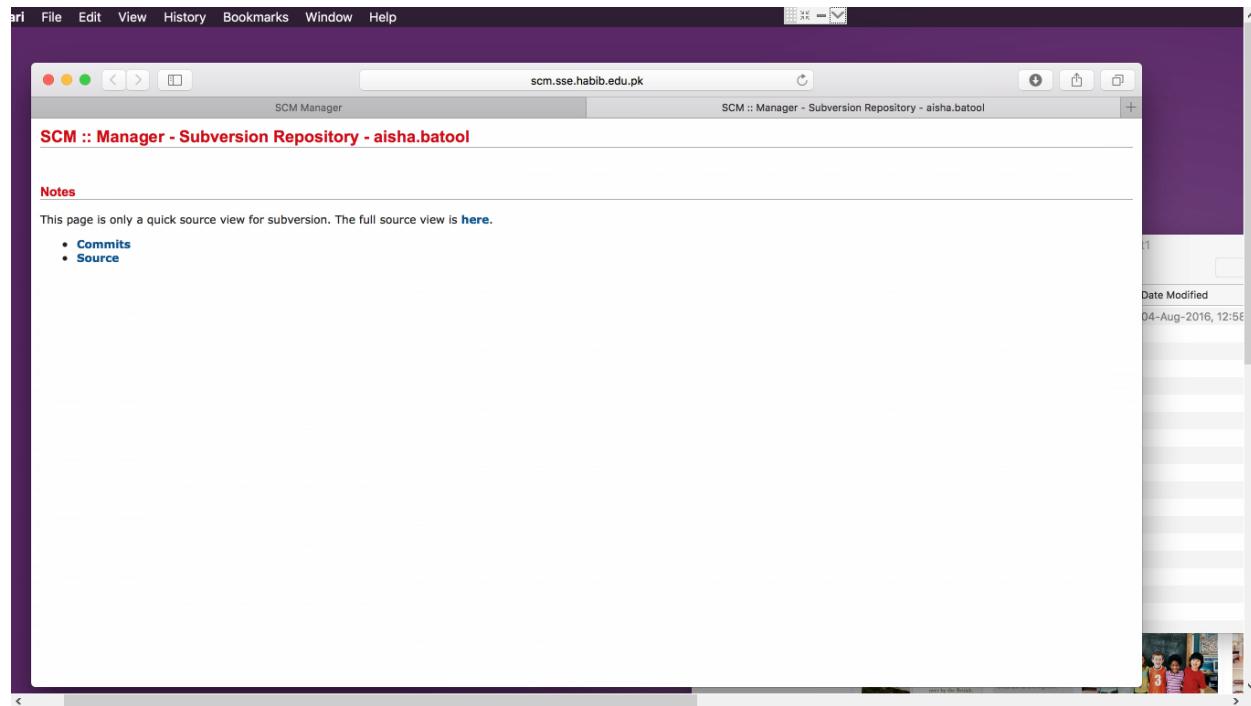


2. You will see the **log** of the files being added.



- 3.** Check the **Url** of the repository. Repository is still empty and added files are not yet on repository.

You need to commit (next step) for transmitting files in repository.

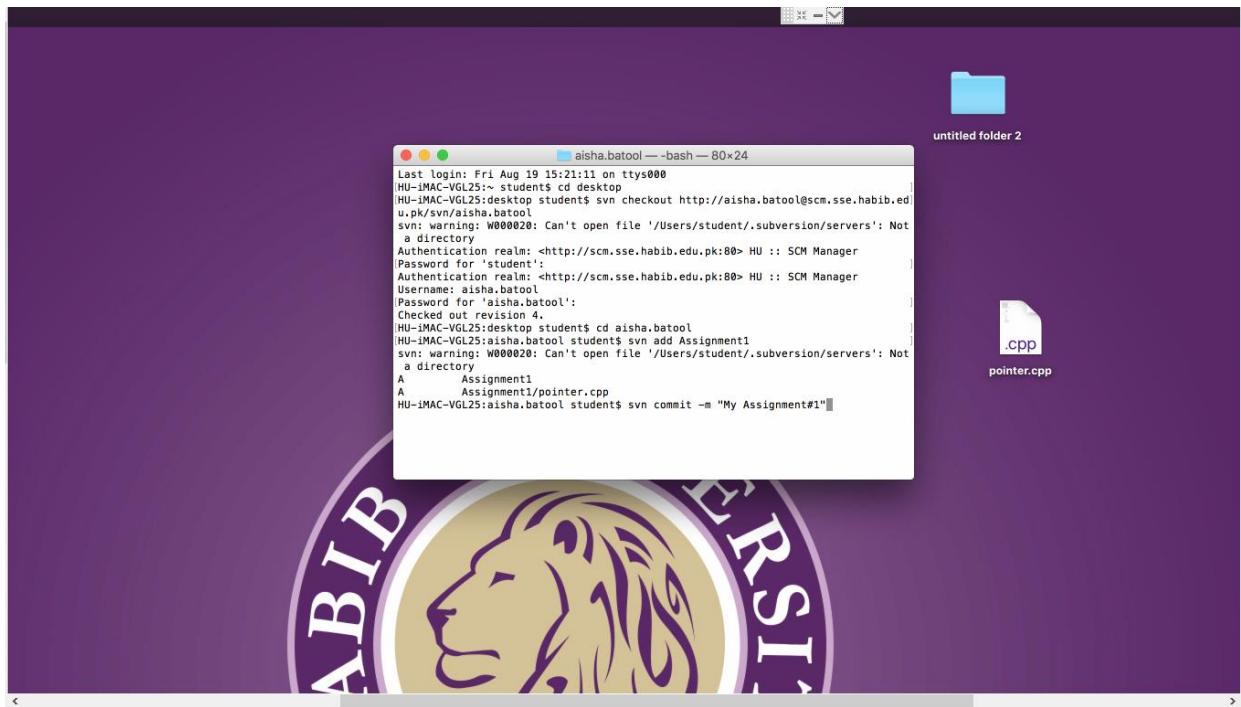


Step#8 - Commit the files to your repository

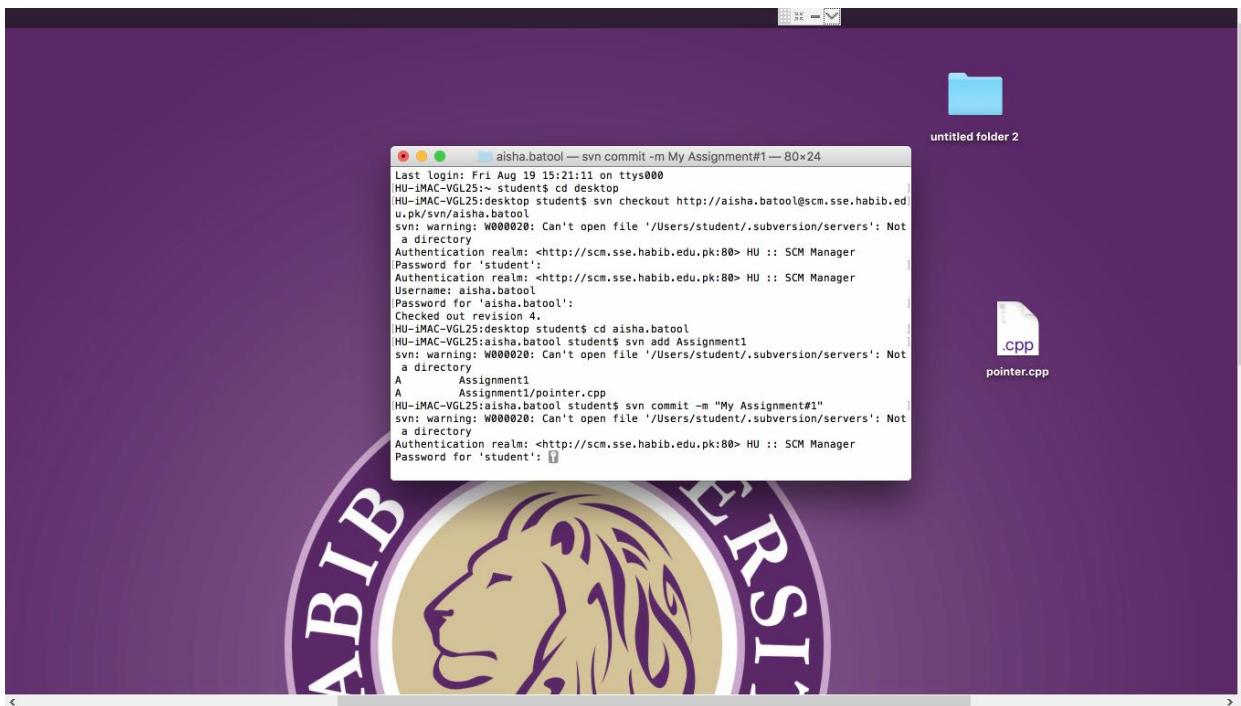
1. In Terminal,

Type: **svn commit -m 'My Assignment#1'**

And press **Enter**.

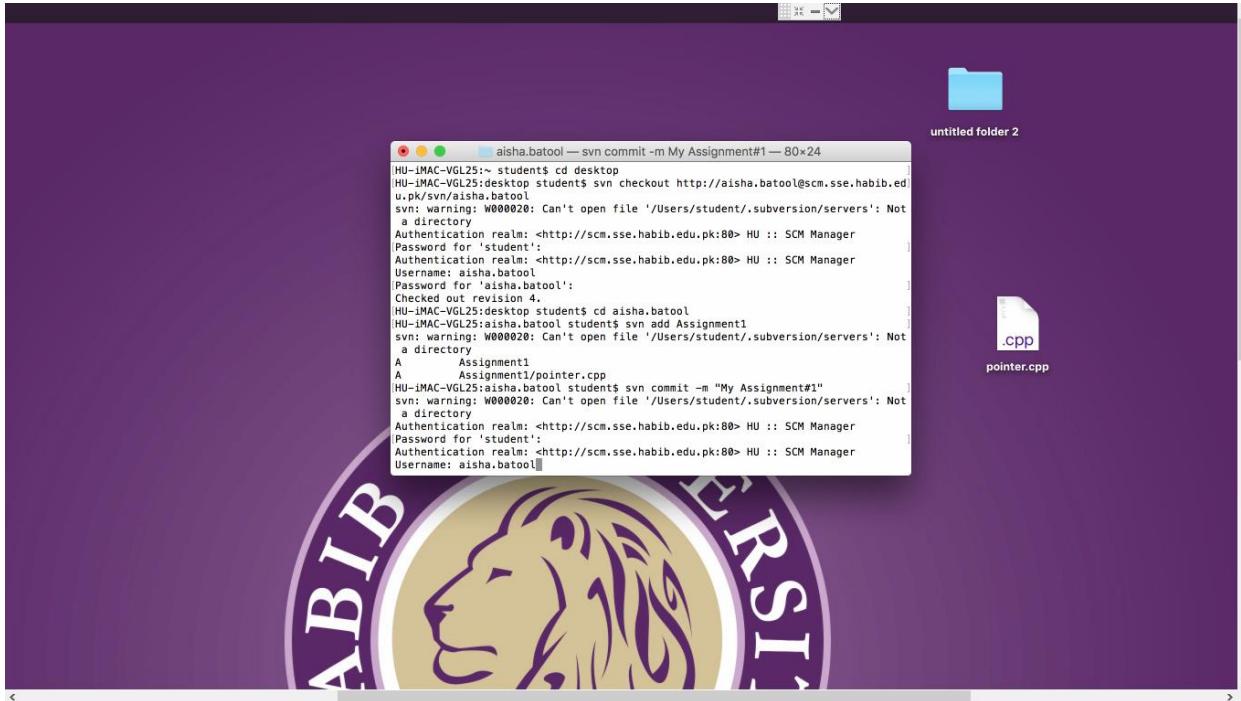


2. Type **password** for local pc user (i.e. student).

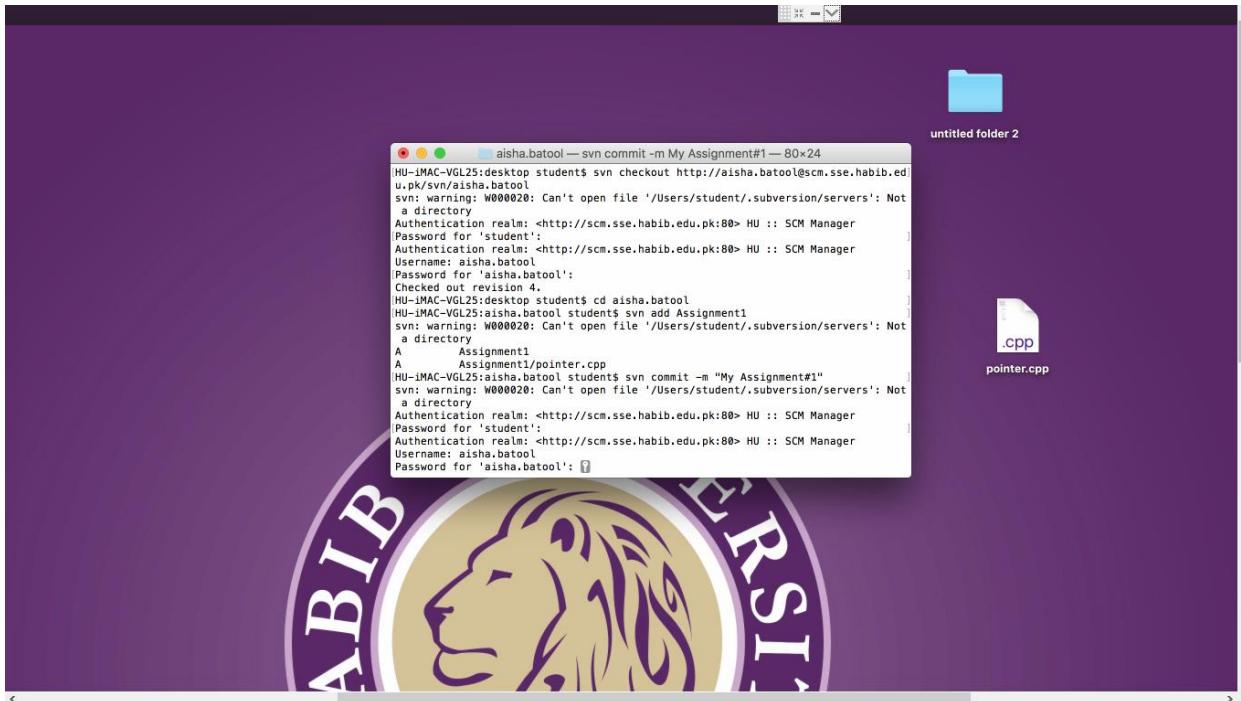


3. You will be asked to login. Do so with your Habib credentials.

Type your SVN account **username** (i.e. your HU username).



4. Type your SVN account **password** (i.e. your HU account password).

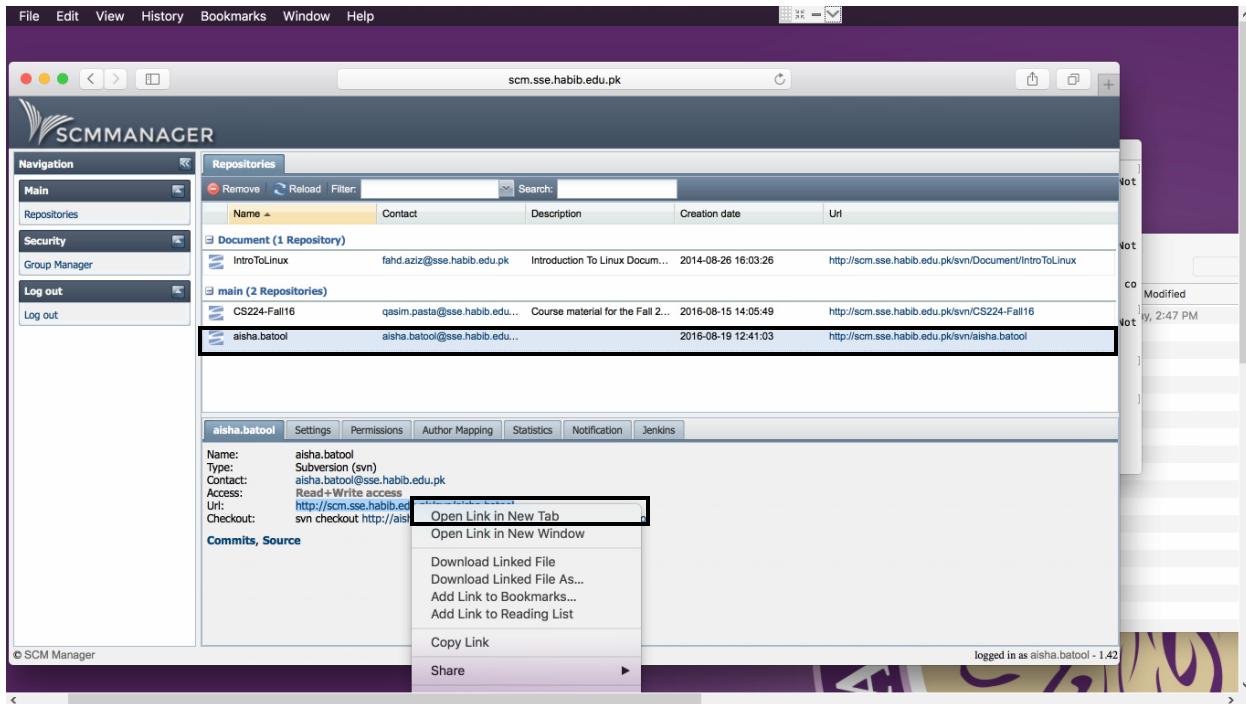


5. You will see a **log** of the files being committed. You are done!

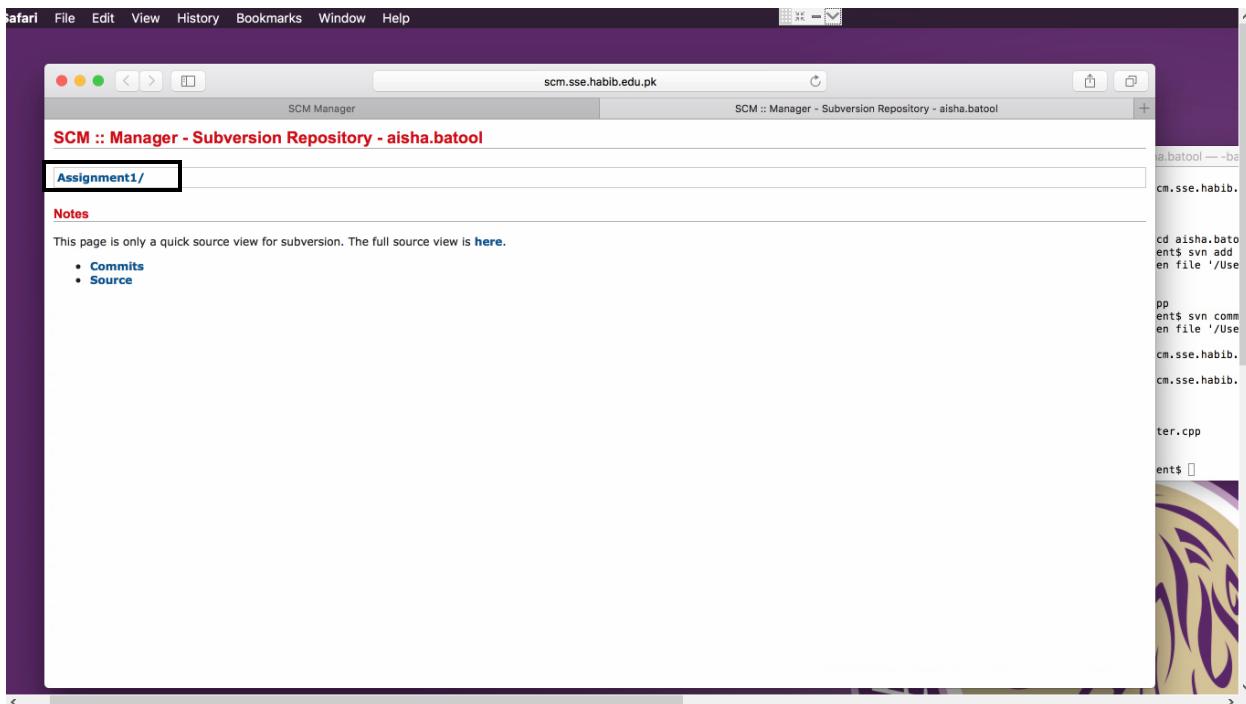
```
aisha.batool — bash — 80x24
Password for 'student':
Authentication realm: <http://scm.sse.habib.edu.pk:80> HU :: SCM Manager
Username: aisha.batool
Password for 'aisha.batool':
Checked out revision 4.
HU-iMAC-VGL25:desktop students$ cd aisha.batool
HU-iMAC-VGL25:aisha.batool students$ svn add Assignment1
svn: warning: W000020: Can't open file '/Users/student/.subversion/servers': Not
a directory
A          Assignment1
A          Assignment1/pointer.cpp
HU-iMAC-VGL25:aisha.batool students$ svn commit -m "My Assignment#1"
svn: warning: W000020: Can't open file '/Users/student/.subversion/servers': Not
a directory
Authentication realm: <http://scm.sse.habib.edu.pk:80> HU :: SCM Manager
Password for 'student':
Authentication realm: <http://scm.sse.habib.edu.pk:80> HU :: SCM Manager
Username: aisha.batool
Password for 'aisha.batool':
Adding          Assignment1
Adding          Assignment1/pointer.cpp
Transmitting file data .
Committed revision 5.
HU-iMAC-VGL25:aisha.batool students$
```

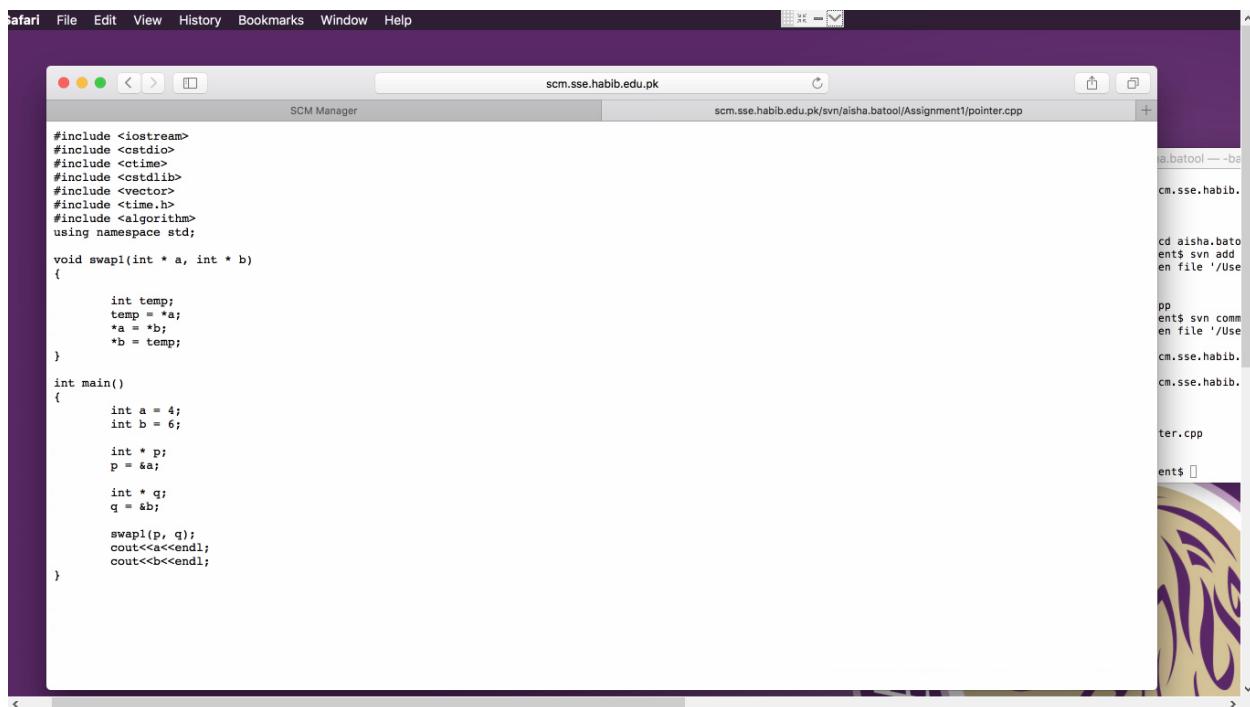
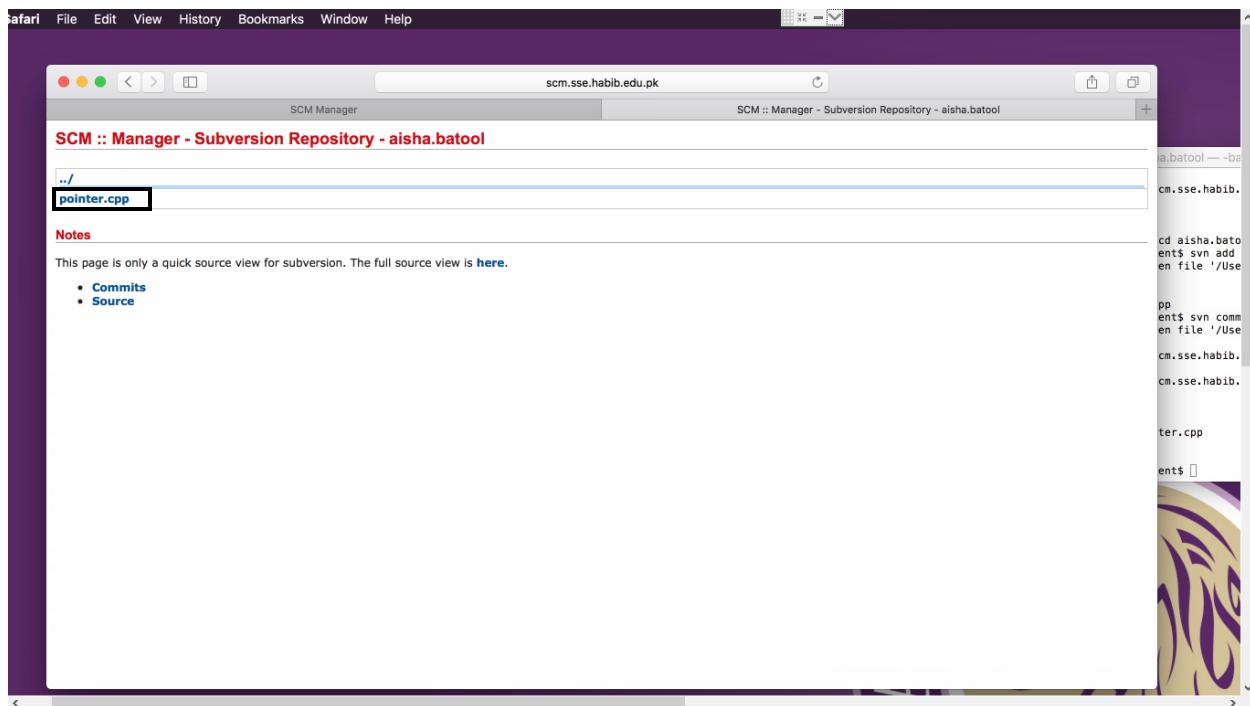
Step#9 - Confirm

1. You can confirm the commit by inspecting the contents of your repository at:
<http://scm.sse.habib.edu.pk>



2. The files have been transmitted successfully on SVN.



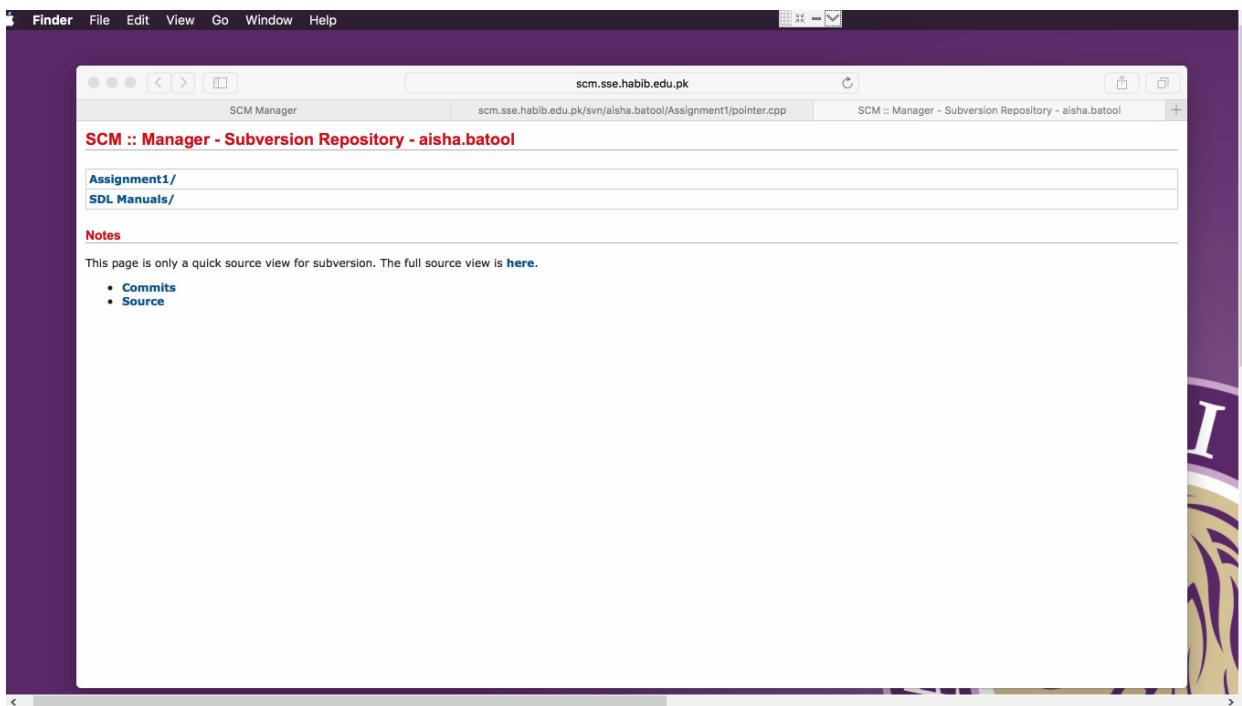


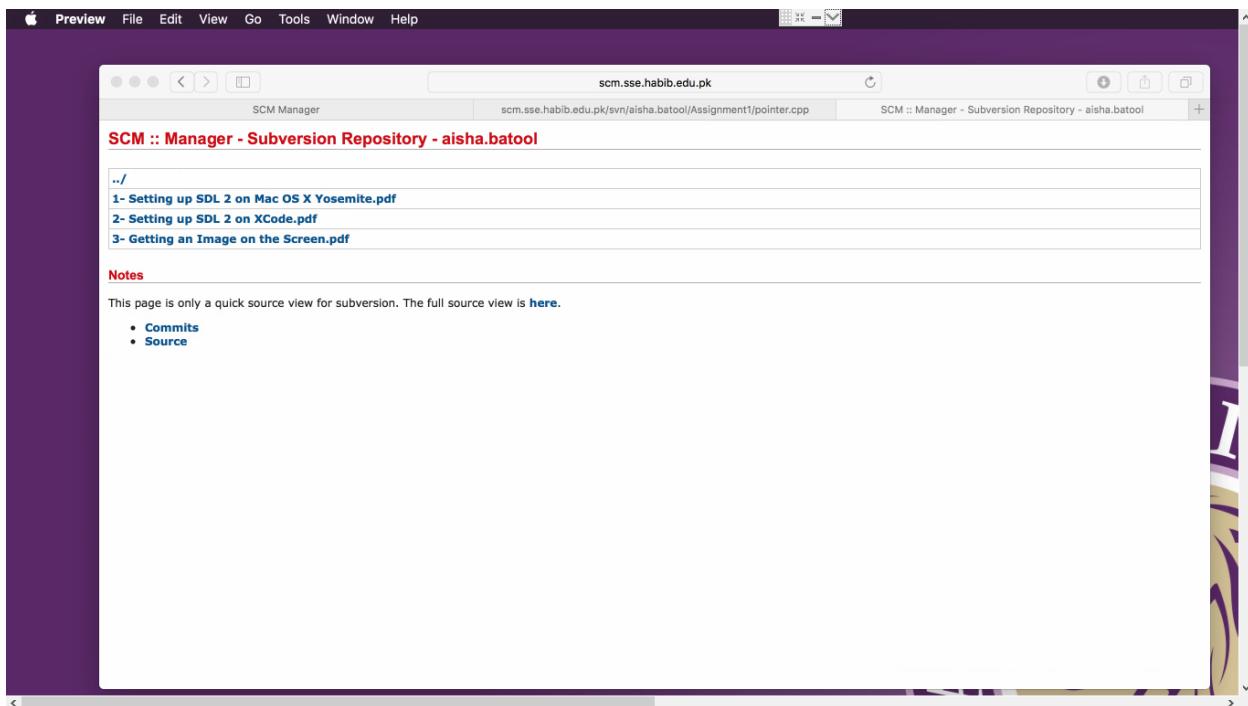
SVN Update

SVN Update command brings changes from the repository into your working copy. If no revision is specified, it brings your working copy up-to-date with the HEAD revision. Otherwise, it synchronizes the working copy to the revision given in the argument.

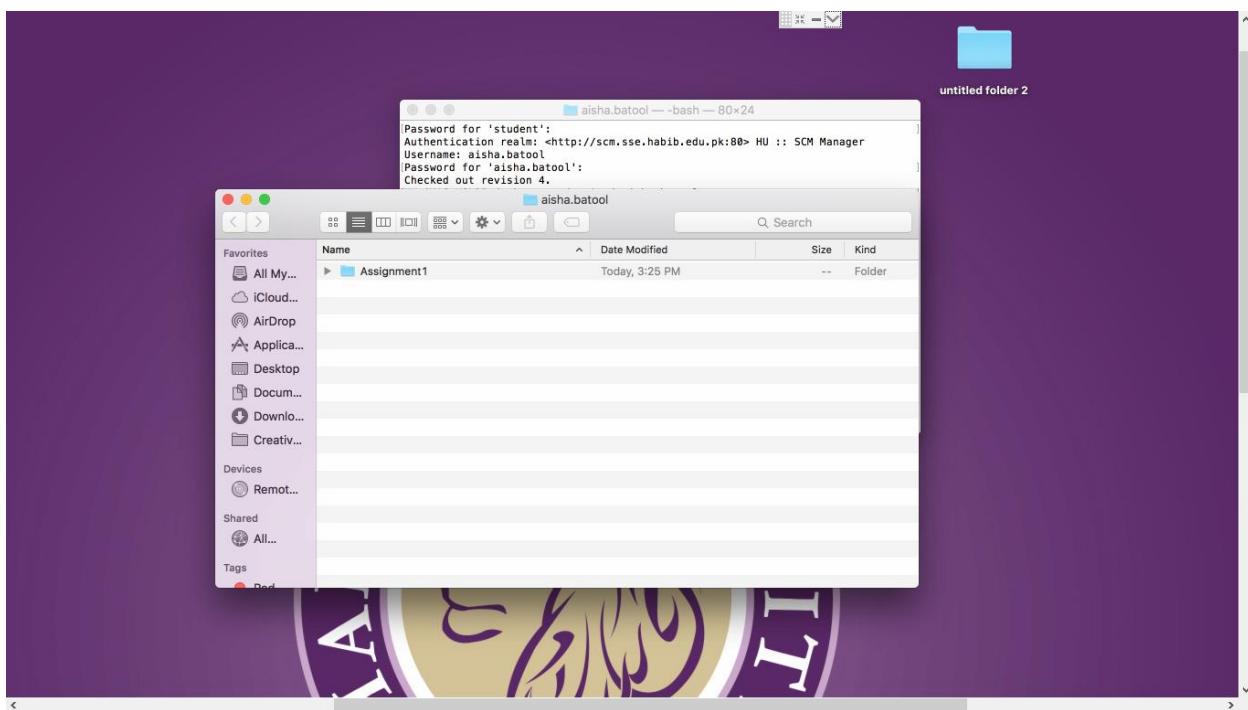
Always before you start working in your working copy, update your working copy. So that all the changes available in repository will be available in your working copy i.e. latest changes.

SVN Repository>>



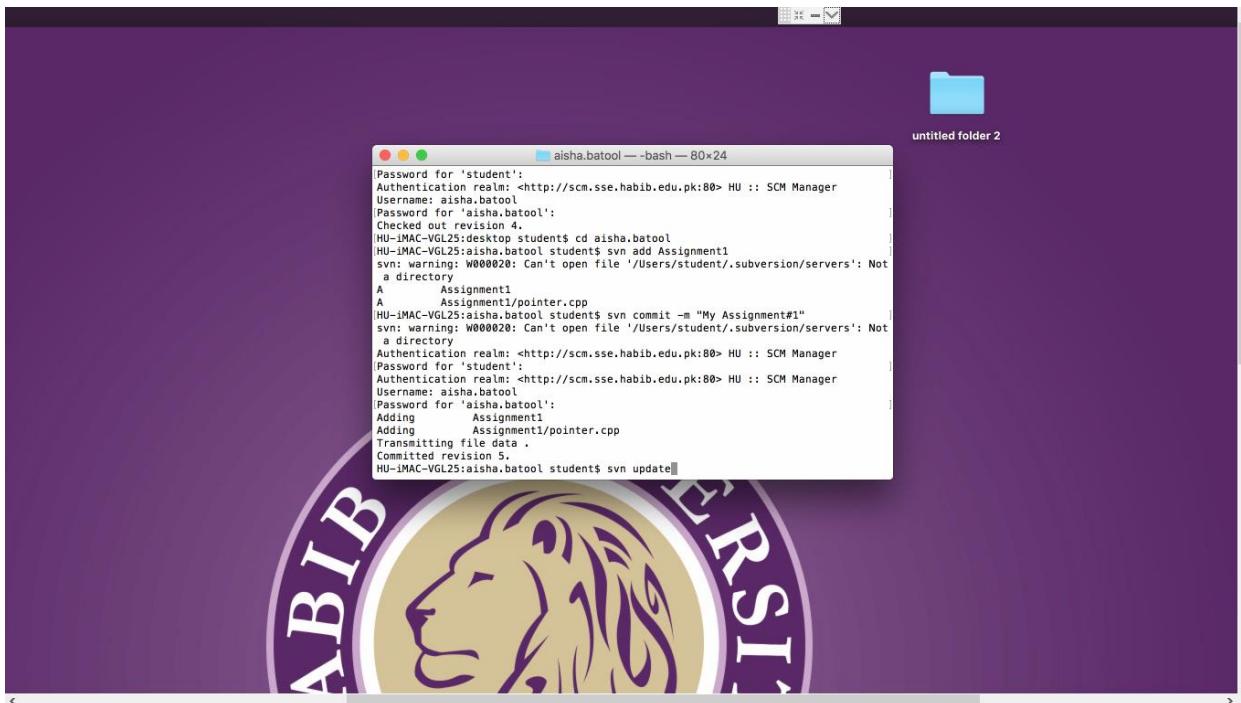


Working Copy>>

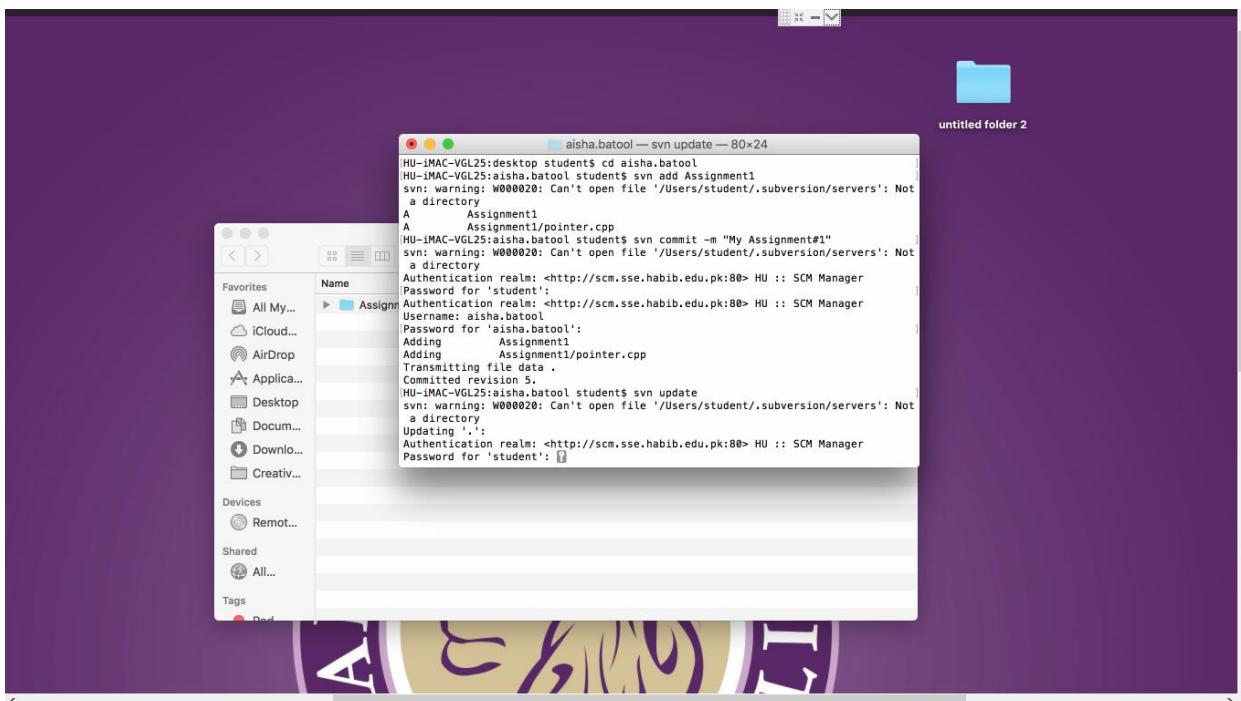


1. On **Terminal** (You should be on your working copy in Terminal i.e. Step#6 should be completed),

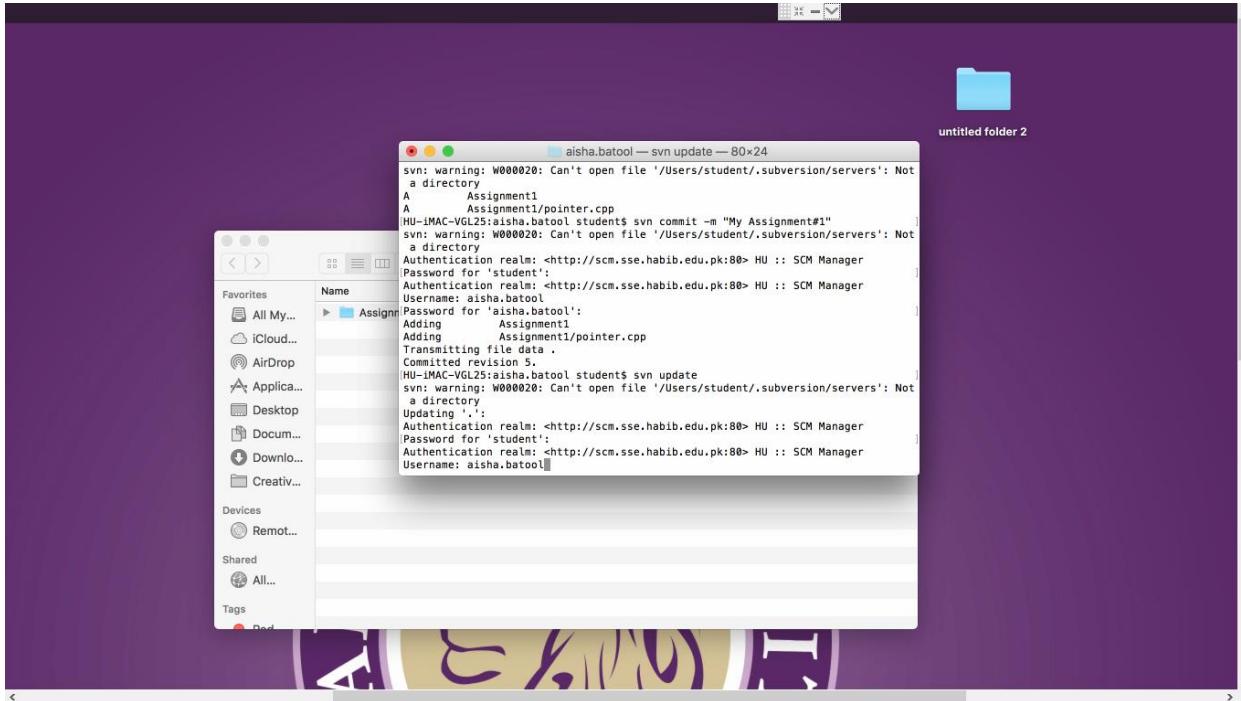
Type: **svn update**



2. Type **password** for local pc user (i.e. student).

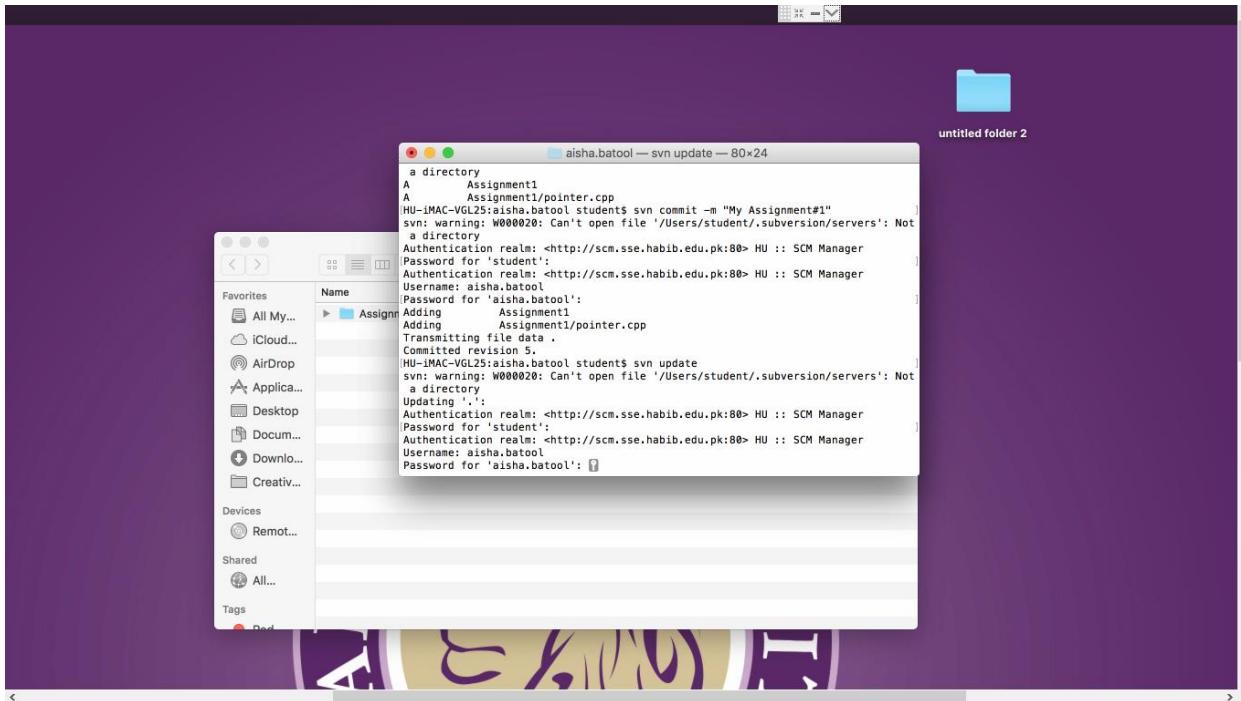


3. You will be asked to **login**. Do so with your Habib credentials.
Type your SVN account **username** (i.e. your HU username).



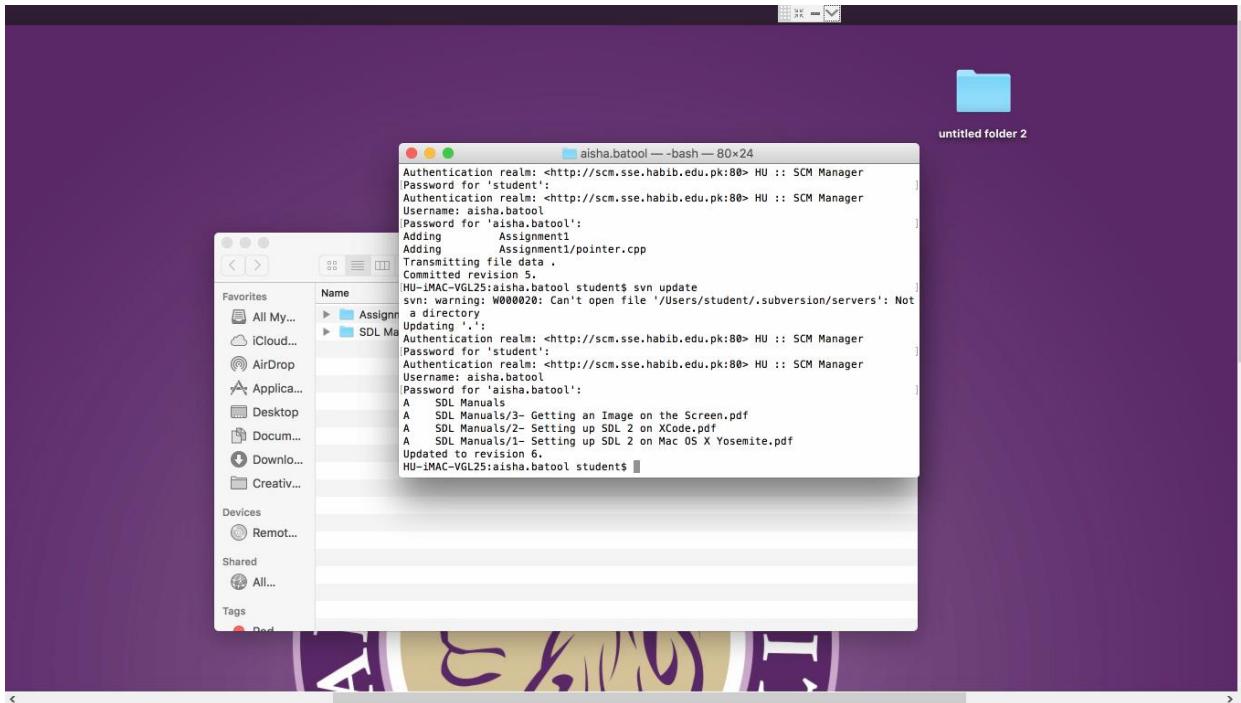
```
aisha.batool — svn update — 80x24
svn: warning: W000020: Can't open file '/Users/student/.subversion/servers': Not
a directory
A          Assignment1
A          Assignment1/pointer.cpp
HU-IMAC-VGL25:aisha.batool student$ svn commit -m "My Assignment#1"
svn: warning: W000020: Can't open file '/Users/student/.subversion/servers': Not
a directory
Authentication realm: <http://scm.sse.habib.edu.pk:80> HU :: SCM Manager
Password for 'student':
Authentication realm: <http://scm.sse.habib.edu.pk:80> HU :: SCM Manager
Username: aisha.batool
Password for 'aisha.batool':
Adding      Assignment1
Adding      Assignment1/pointer.cpp
Transmitting file data .
Committed revision 5.
HU-IMAC-VGL25:aisha.batool student$ svn update
svn: warning: W000020: Can't open file '/Users/student/.subversion/servers': Not
a directory
Updating '.':
Authentication realm: <http://scm.sse.habib.edu.pk:80> HU :: SCM Manager
Password for 'student':
Authentication realm: <http://scm.sse.habib.edu.pk:80> HU :: SCM Manager
Username: aisha.batool
Password for 'aisha.batool'|
```

4. Type your SVN account **password** (i.e. your HU account password).

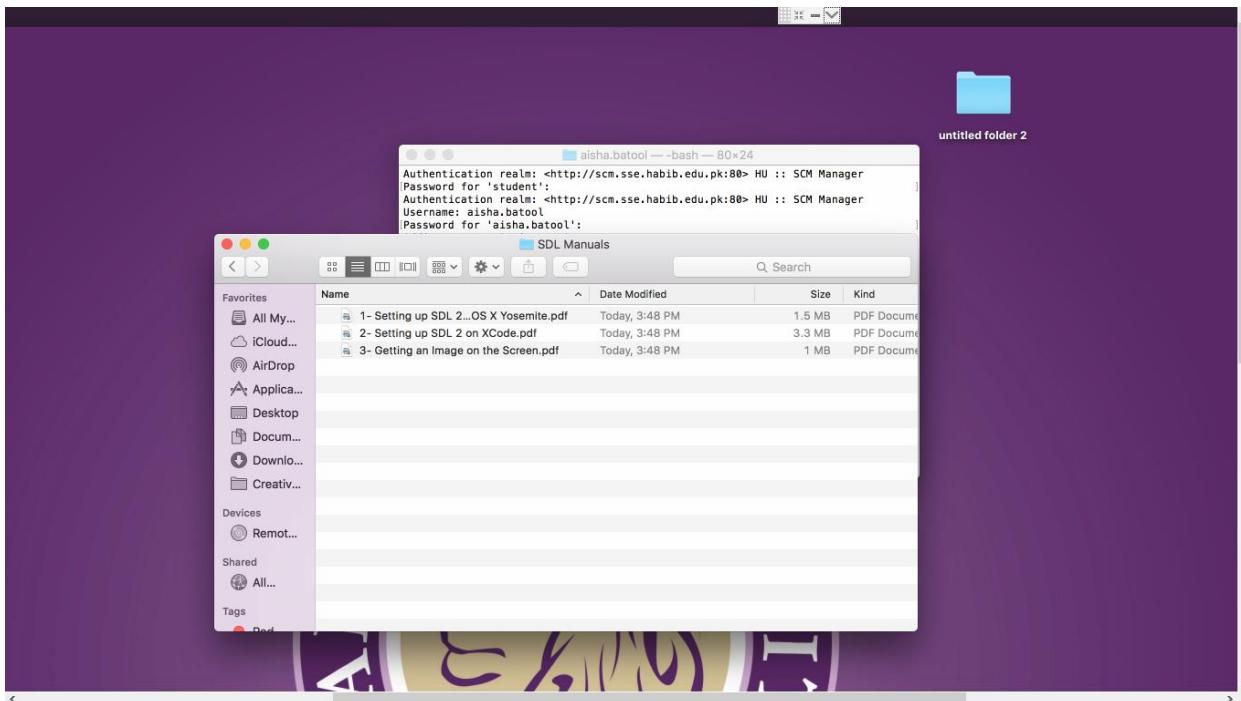


```
aisha.batool — svn update — 80x24
a directory
A          Assignment1
A          Assignment1/pointer.cpp
HU-IMAC-VGL25:aisha.batool student$ svn commit -m "My Assignment#1"
svn: warning: W000020: Can't open file '/Users/student/.subversion/servers': Not
a directory
Authentication realm: <http://scm.sse.habib.edu.pk:80> HU :: SCM Manager
Password for 'student':
Authentication realm: <http://scm.sse.habib.edu.pk:80> HU :: SCM Manager
Username: aisha.batool
Password for 'aisha.batool':
Adding      Assignment1
Adding      Assignment1/pointer.cpp
Transmitting file data .
Committed revision 5.
HU-IMAC-VGL25:aisha.batool student$ svn update
svn: warning: W000020: Can't open file '/Users/student/.subversion/servers': Not
a directory
Updating '.':
Authentication realm: <http://scm.sse.habib.edu.pk:80> HU :: SCM Manager
Password for 'student':
Authentication realm: <http://scm.sse.habib.edu.pk:80> HU :: SCM Manager
Username: aisha.batool
Password for 'aisha.batool': |
```

5. You will see the **log** of files being updated.
Your **working copy** have been updated successfully.

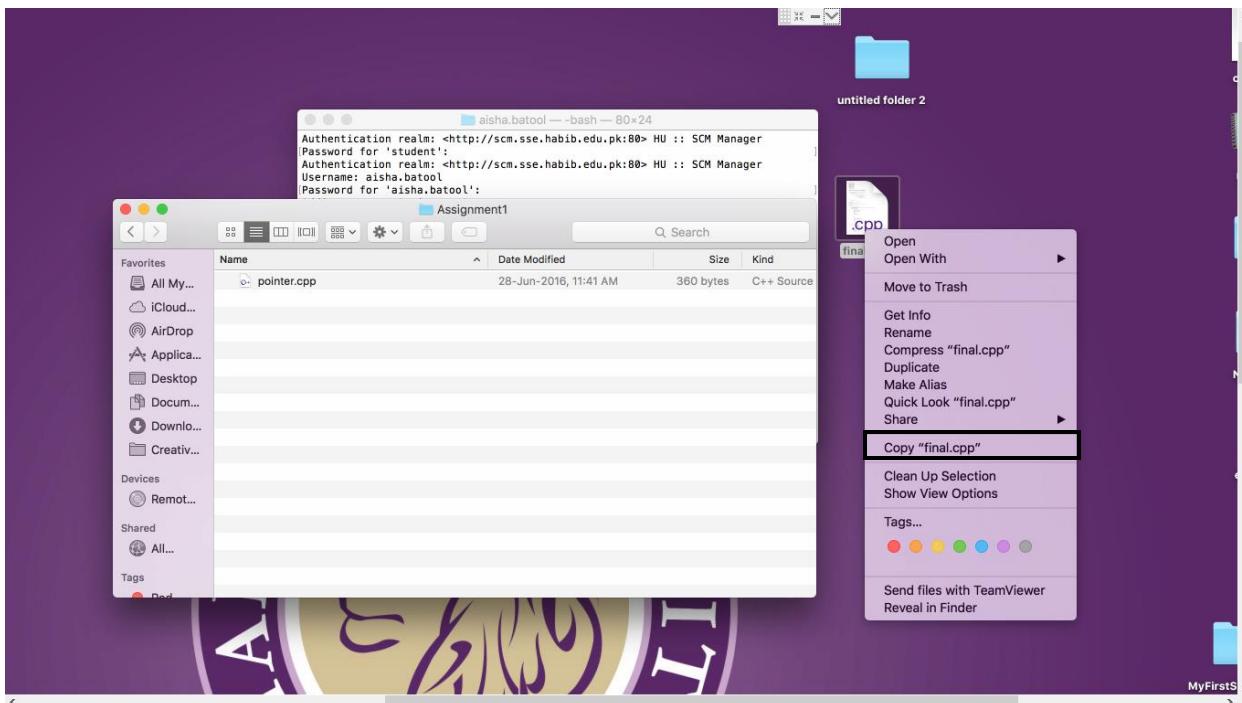


6. Go to your **working copy** to confirm.

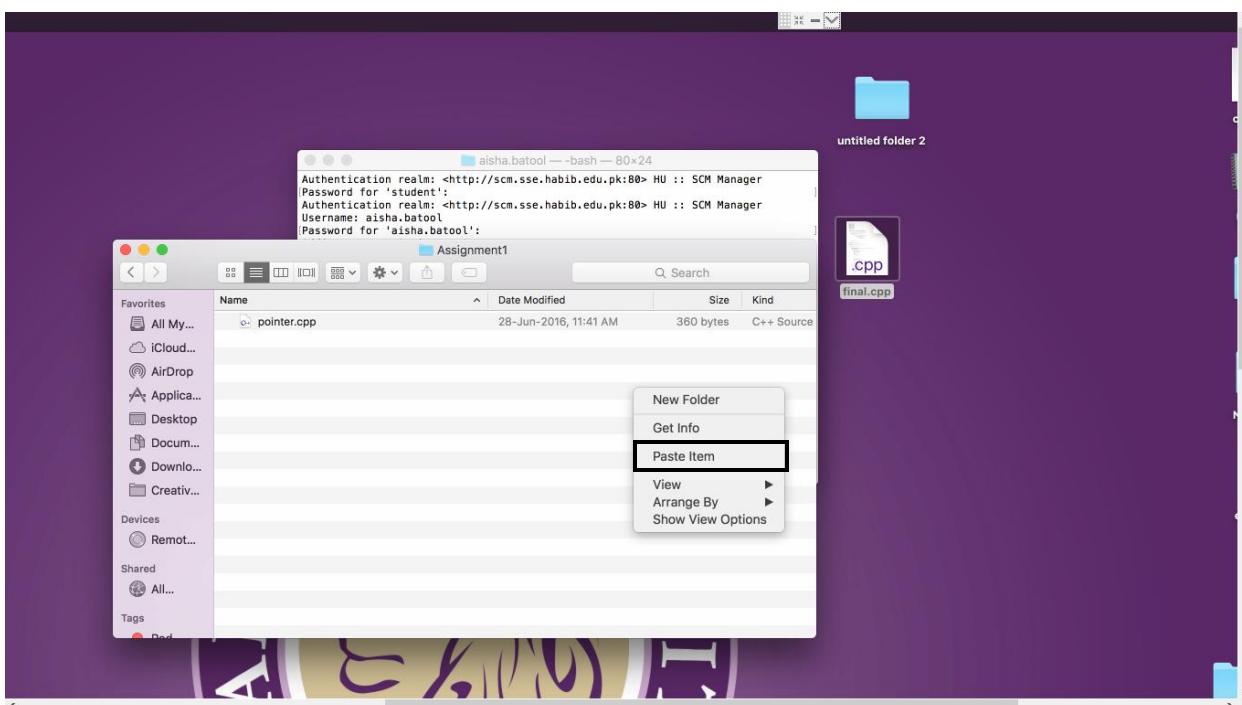


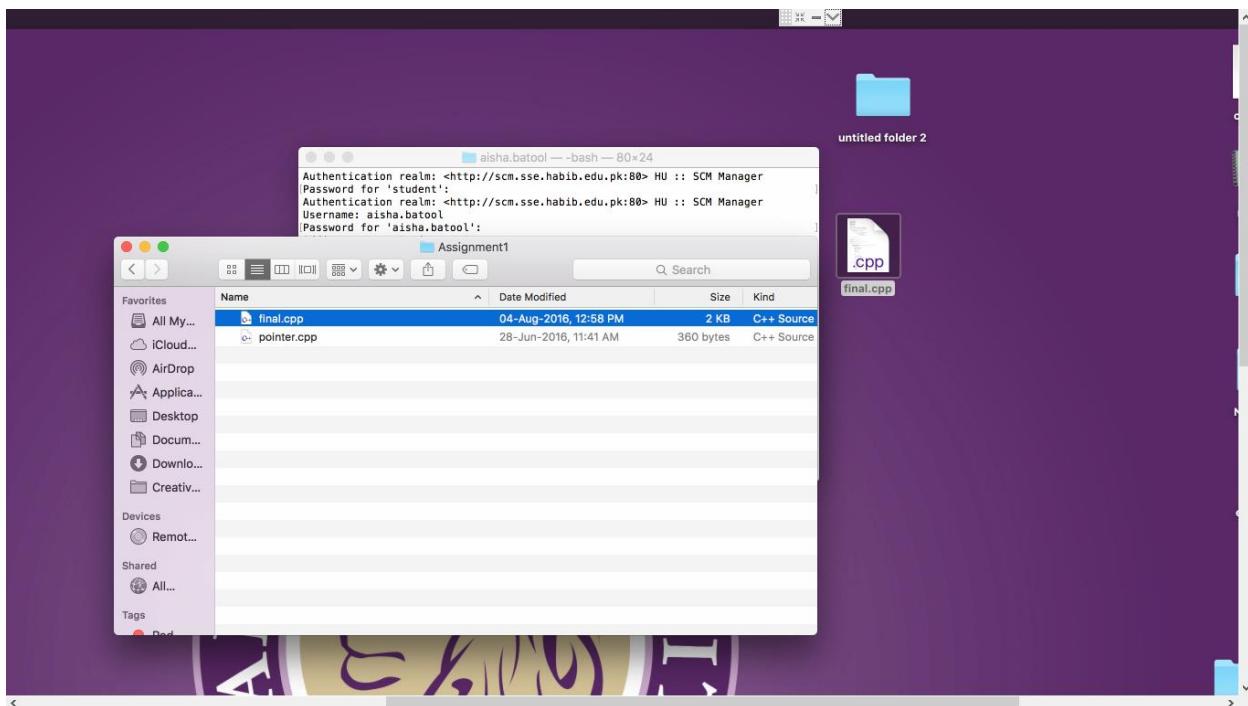
Adding files To Non-Empty Repository

1. Copy **final.cpp** file.



2. Paste **final.cpp** file inside **Assignment1**.

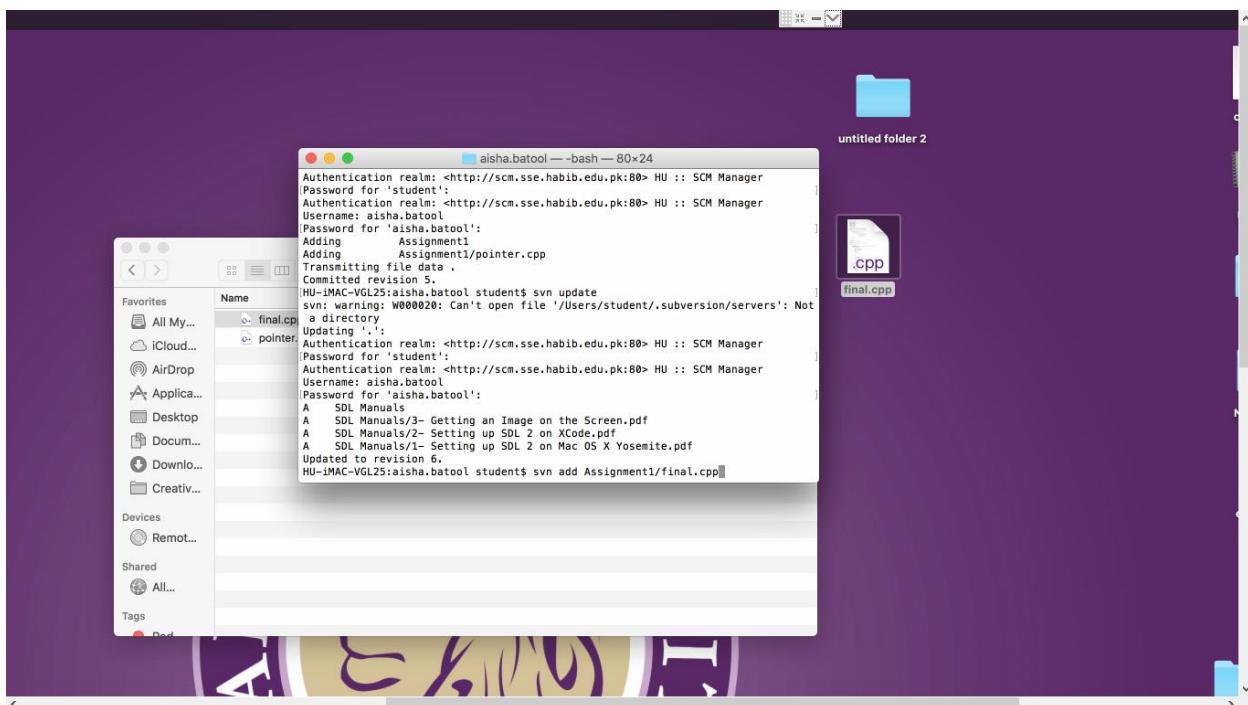




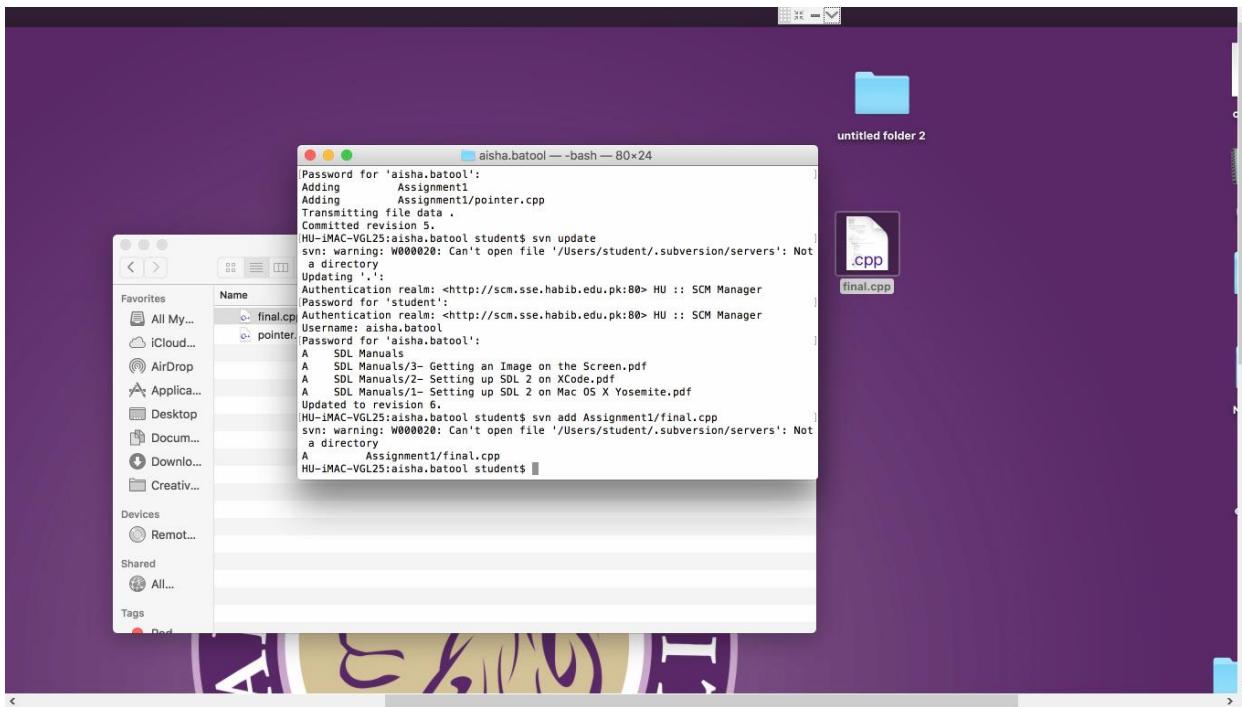
3. On **Terminal** (You should be on your working copy in Terminal i.e. Step#6 should be completed),

Type: **svn add Assignment1/final.cpp**

And hit **Enter**.



4. You will see the **log** of the files being added.

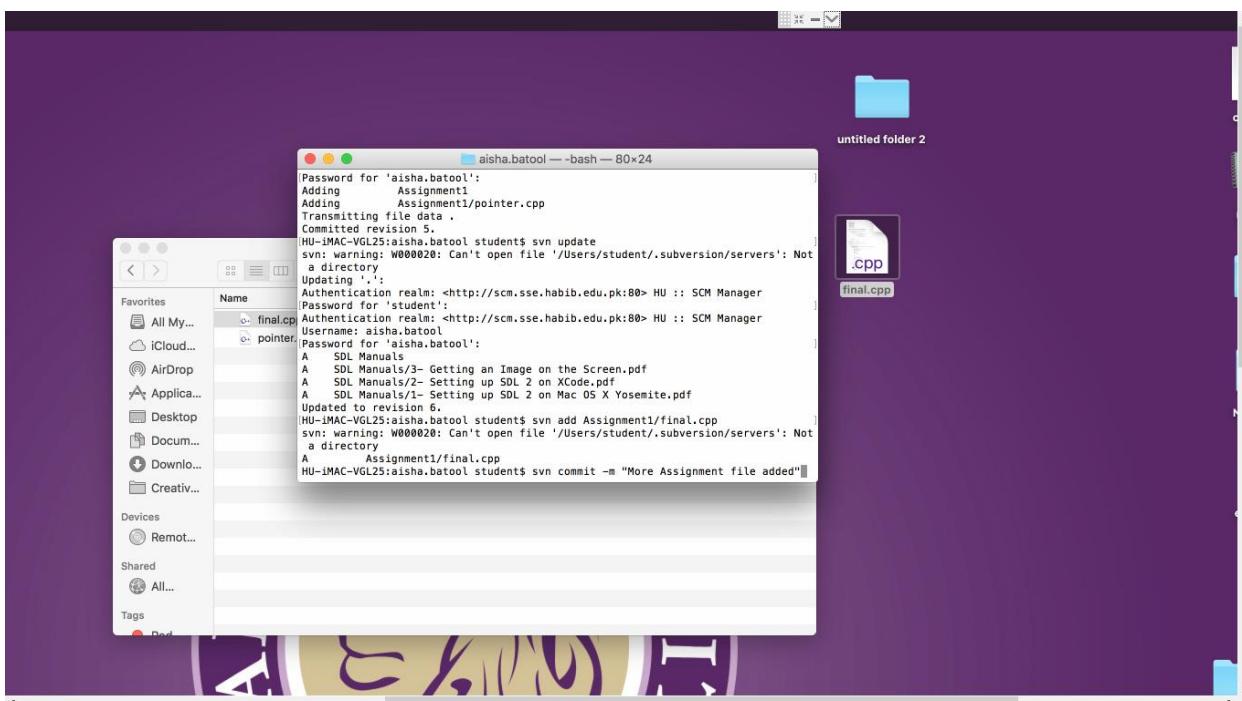


```
alisha.batool — bash — 80x24
Password for 'aisha.batool':
Adding Assignment1
Adding Assignment1/pointer.cpp
Transmitting file data .
Committed revision 5.
HU-IMAC-VGL25:aisha.batool student$ svn update
svn: warning: W000020: Can't open file '/Users/student/.subversion/servers': Not
a directory
Updating '.':
Authentication realm: <http://scm.sse.habib.edu.pk:80> HU :: SCM Manager
Password for 'student':
Authentication realm: <http://scm.sse.habib.edu.pk:80> HU :: SCM Manager
Username: aisha.batool
Password for 'aisha.batool':
A SDL Manuals
A SDL Manuals/3- Getting an Image on the Screen.pdf
A SDL Manuals/2- Setting up SDL 2 on XCode.pdf
A SDL Manuals/1- Setting up SDL 2 on Mac OS X Yosemite.pdf
Updated to revision 6.
HU-IMAC-VGL25:aisha.batool student$ svn add Assignment1/final.cpp
svn: warning: W000020: Can't open file '/Users/student/.subversion/servers': Not
a directory
A Assignment1/final.cpp
HU-IMAC-VGL25:aisha.batool student$
```

6. In Terminal,

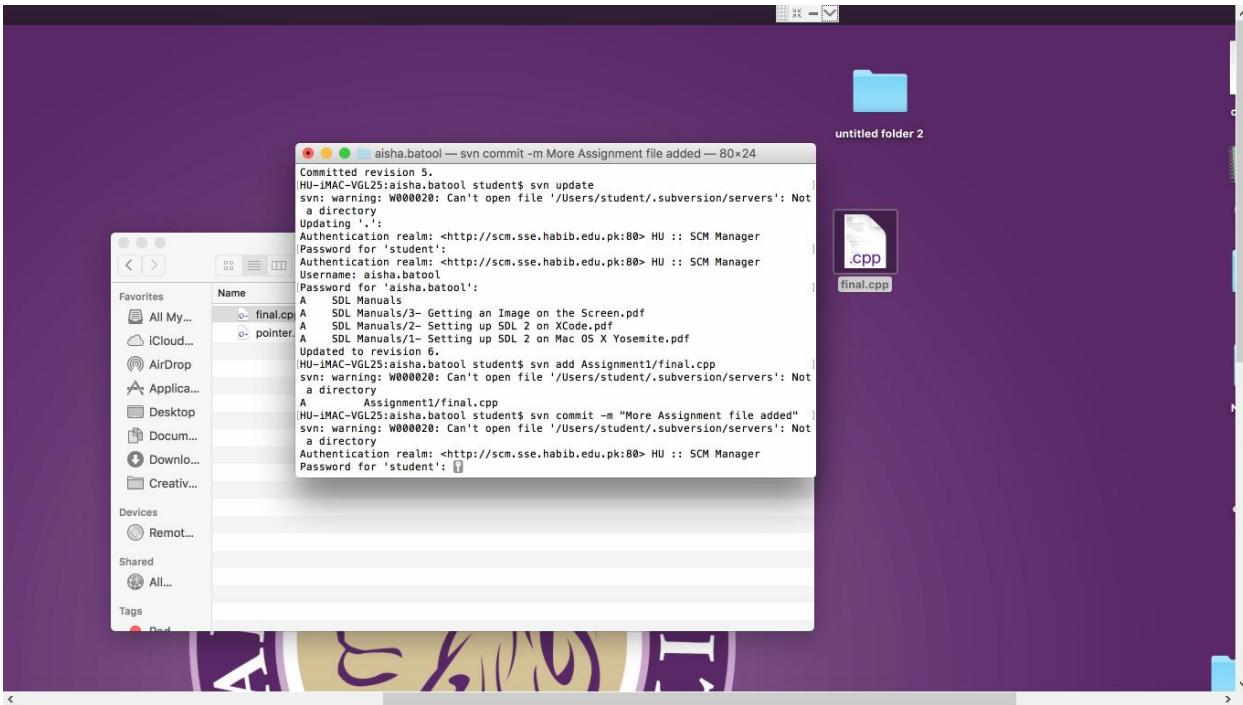
Type: **svn commit -m 'More Assignment file added'**

And press **Enter**.



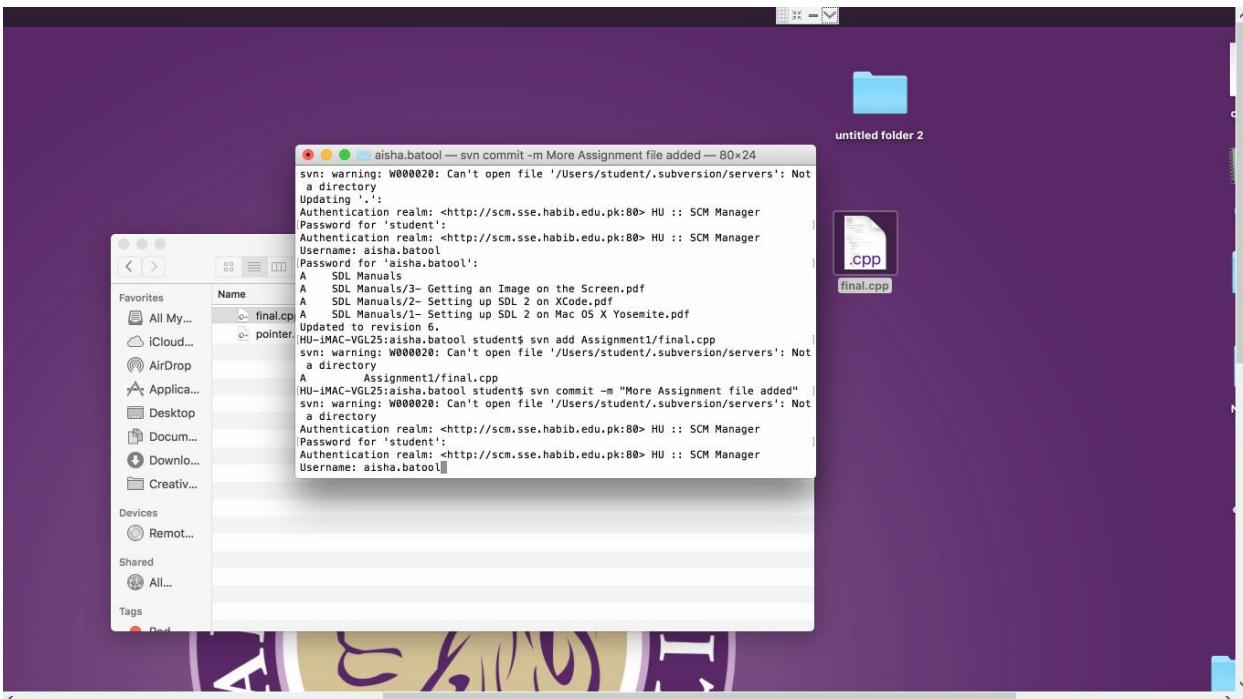
```
alisha.batool — bash — 80x24
Password for 'aisha.batool':
Adding Assignment1
Adding Assignment1/pointer.cpp
Transmitting file data .
Committed revision 5.
HU-IMAC-VGL25:aisha.batool student$ svn update
svn: warning: W000020: Can't open file '/Users/student/.subversion/servers': Not
a directory
Updating '.':
Authentication realm: <http://scm.sse.habib.edu.pk:80> HU :: SCM Manager
Password for 'student':
Authentication realm: <http://scm.sse.habib.edu.pk:80> HU :: SCM Manager
Username: aisha.batool
Password for 'aisha.batool':
A SDL Manuals
A SDL Manuals/3- Getting an Image on the Screen.pdf
A SDL Manuals/2- Setting up SDL 2 on XCode.pdf
A SDL Manuals/1- Setting up SDL 2 on Mac OS X Yosemite.pdf
Updated to revision 6.
HU-IMAC-VGL25:aisha.batool student$ svn add Assignment1/final.cpp
svn: warning: W000020: Can't open file '/Users/student/.subversion/servers': Not
a directory
A Assignment1/final.cpp
HU-IMAC-VGL25:aisha.batool student$ svn commit -m "More Assignment file added"
```

7. Type **password** for local pc user (i.e. student).

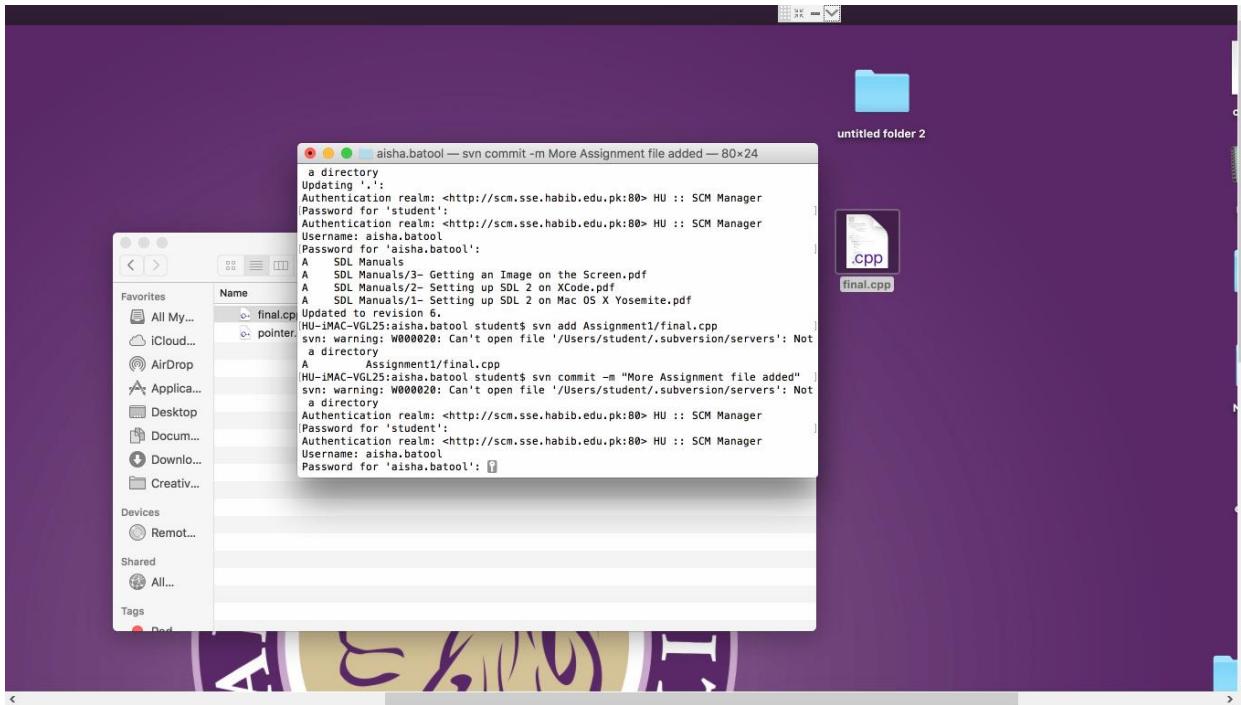


8. You will be asked to **login**. Do so with your Habib credentials.

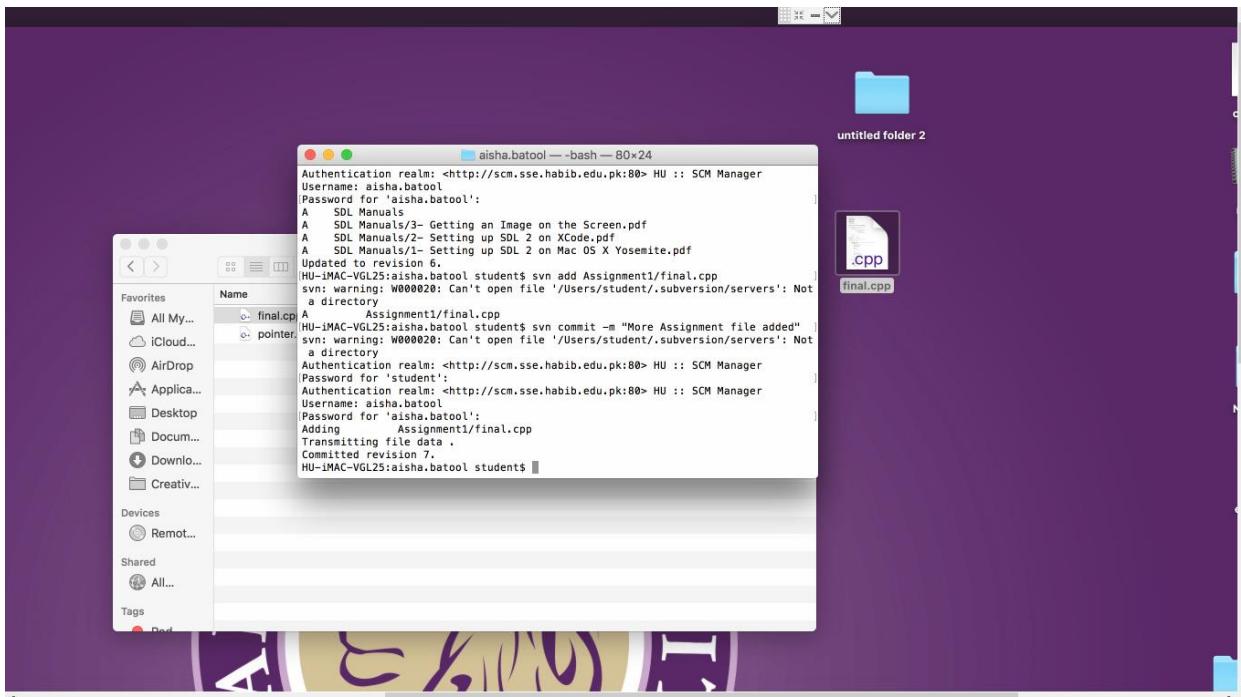
Type your SVN account **username** (i.e. your HU username).



9. Type your SVN account **password** (i.e. your HU account password).



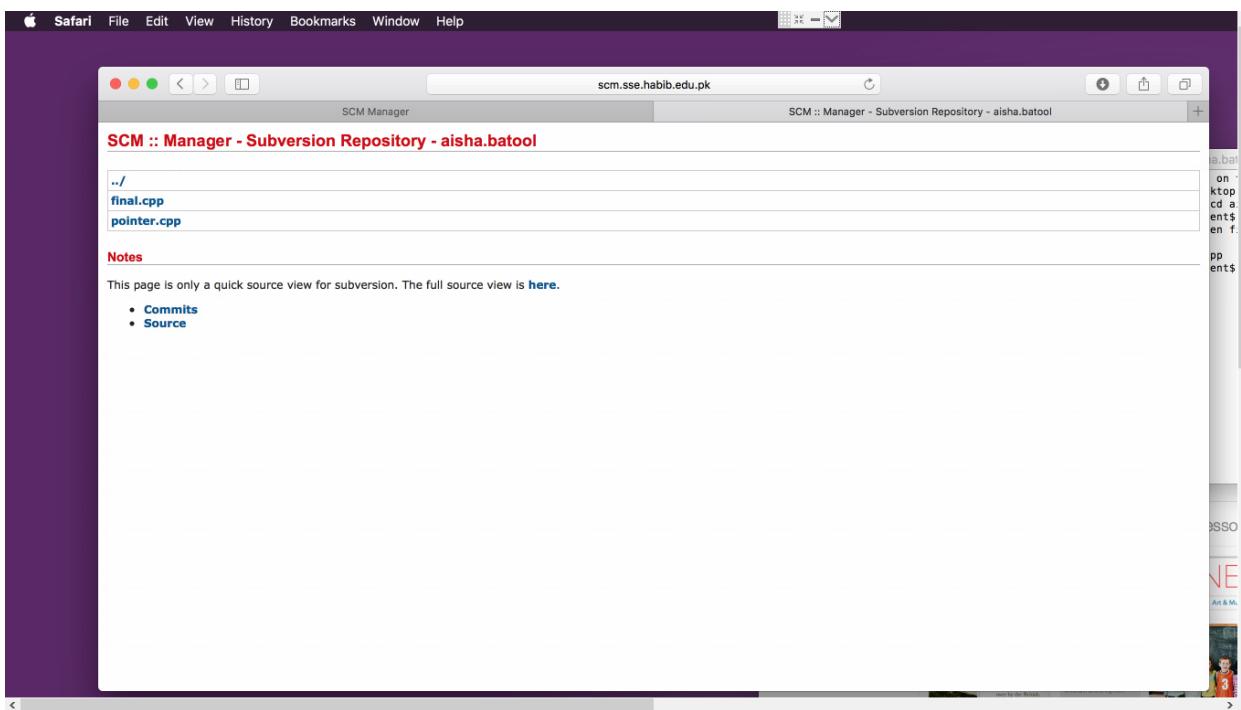
10. You will see a **log** of the files being committed. You are done!



11. You can confirm the commit by inspecting the contents of your repository at:

<http://scm.sse.habib.edu.pk> (Step#9)

The files have been transmitted successfully on SVN.

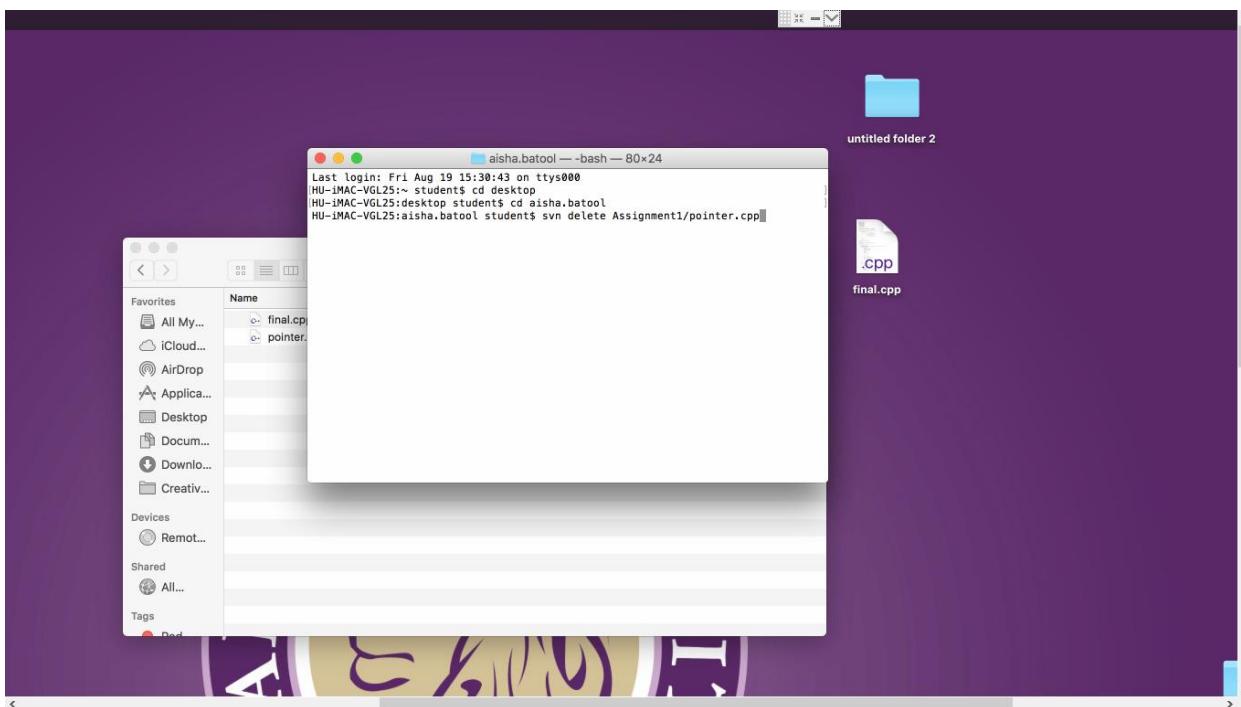


Deleting File from Repository

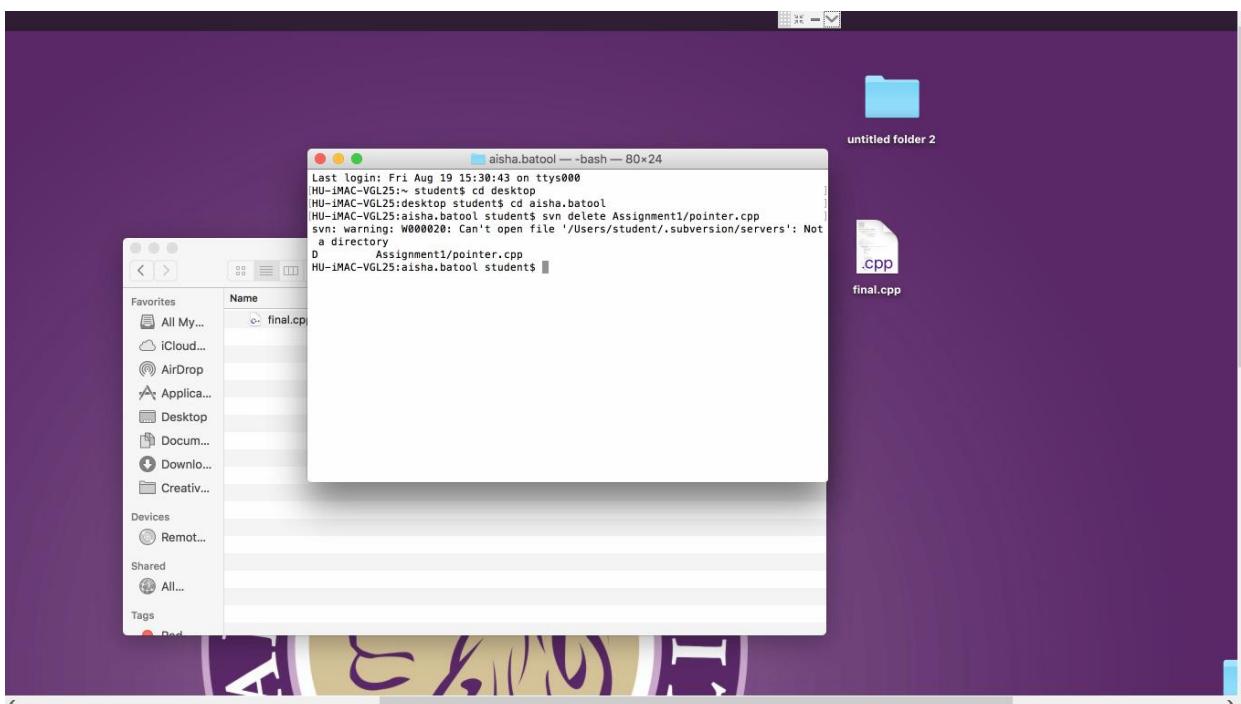
1. On **Terminal** (You should be on your working copy in Terminal i.e. Step#6 should be completed),

Type: **svn delete Assignment1/pointer.cpp**

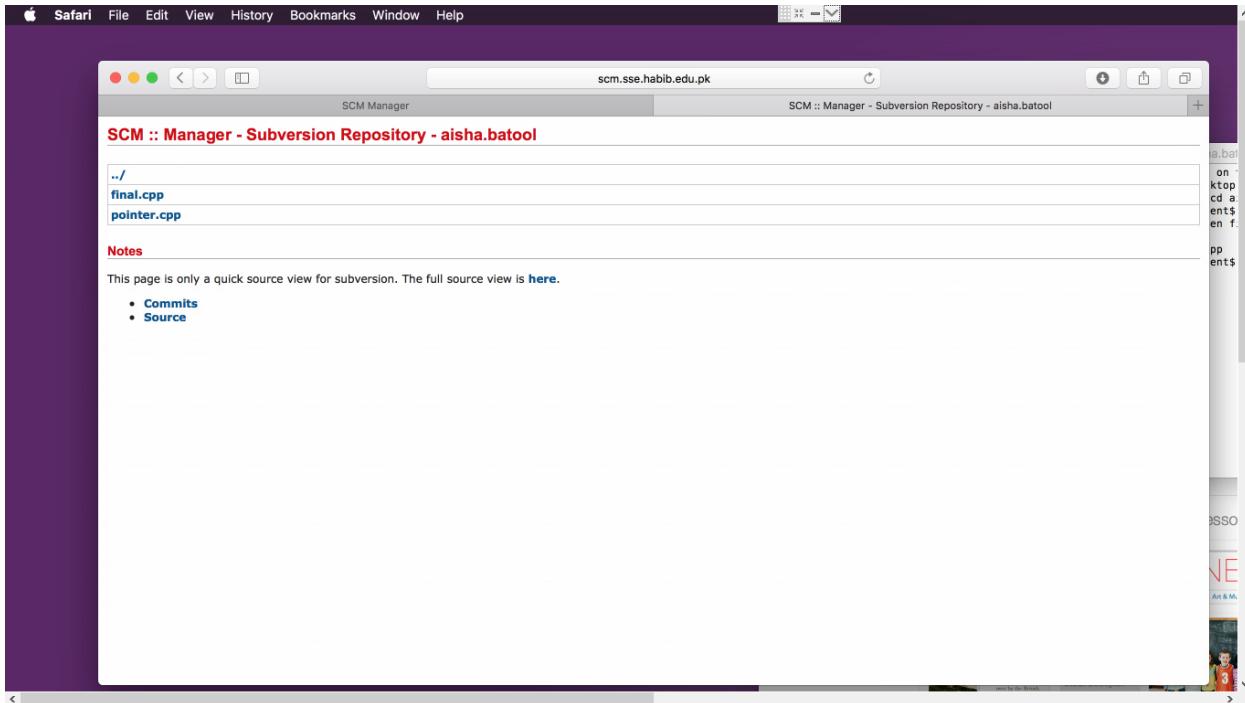
And hit **Enter**.



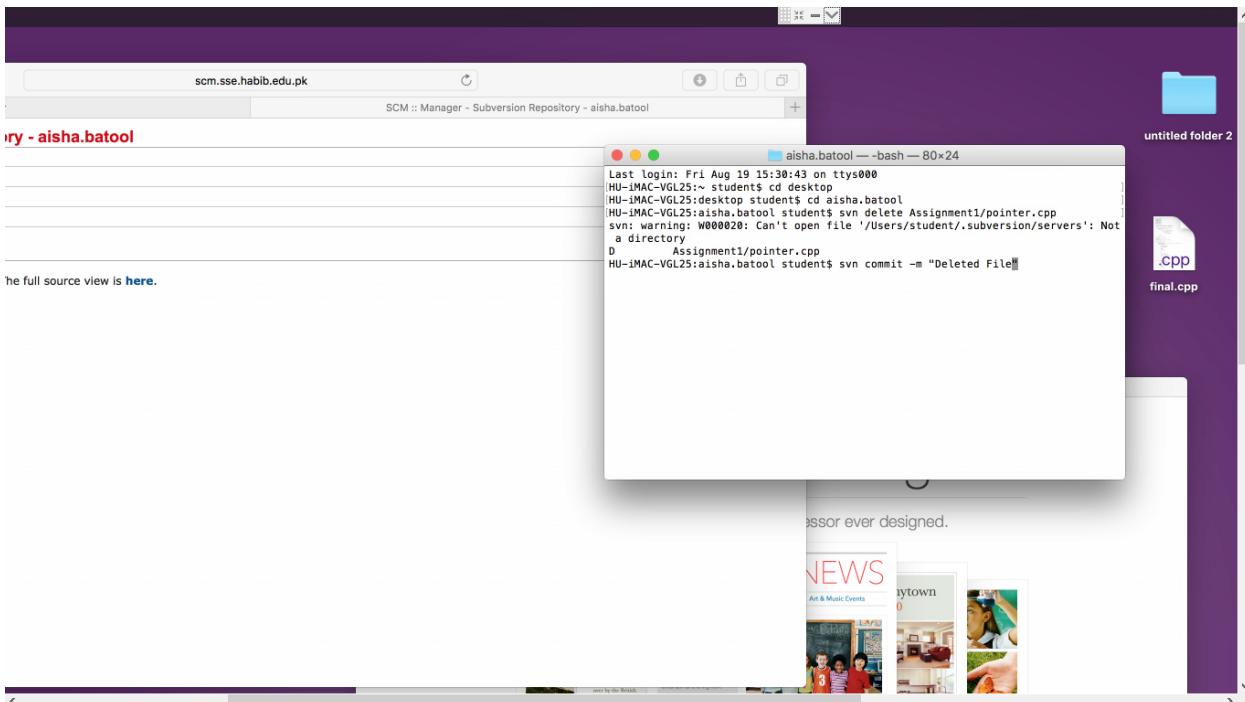
2. You will see the **log** of file being deleted. Also file will be **deleted** from working copy.



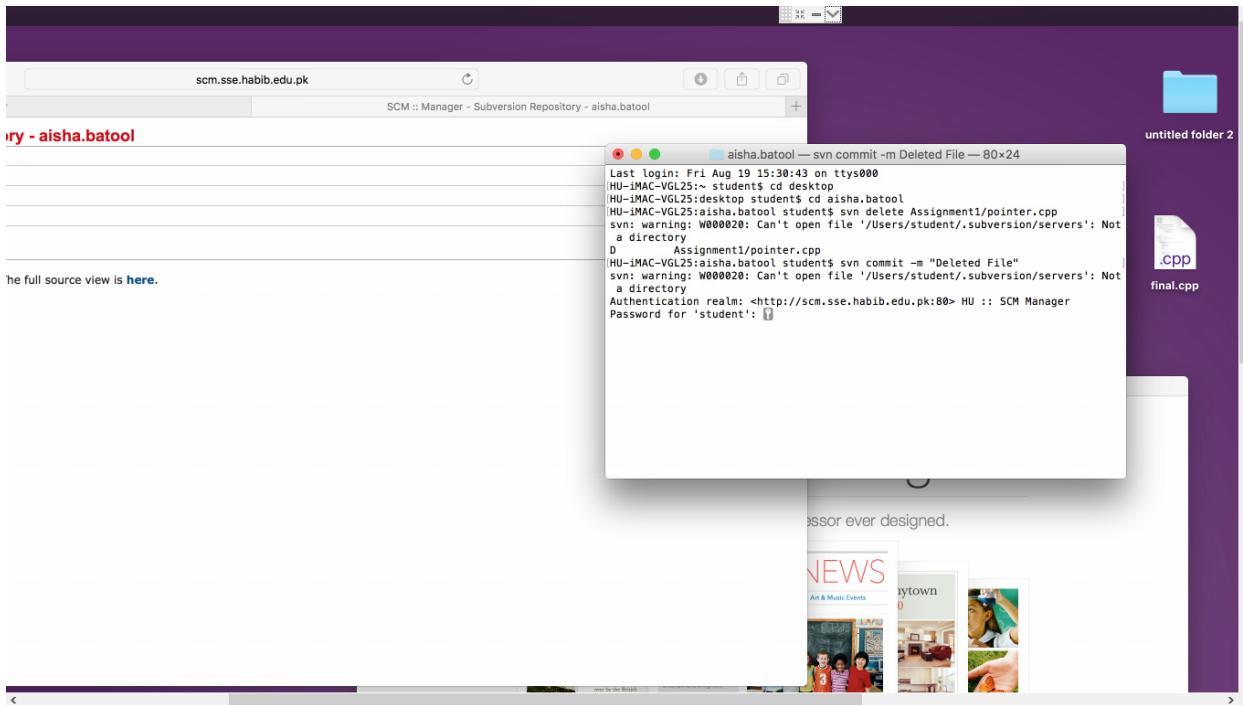
- 3.** Check the **Url** of the repository. Pointer.cpp has not been deleted in Repository.
You need to commit (next step) for deleting files in repository.



- 4.** In Terminal,
Type: **svn commit -m 'Deleted File'**
And press **Enter**.

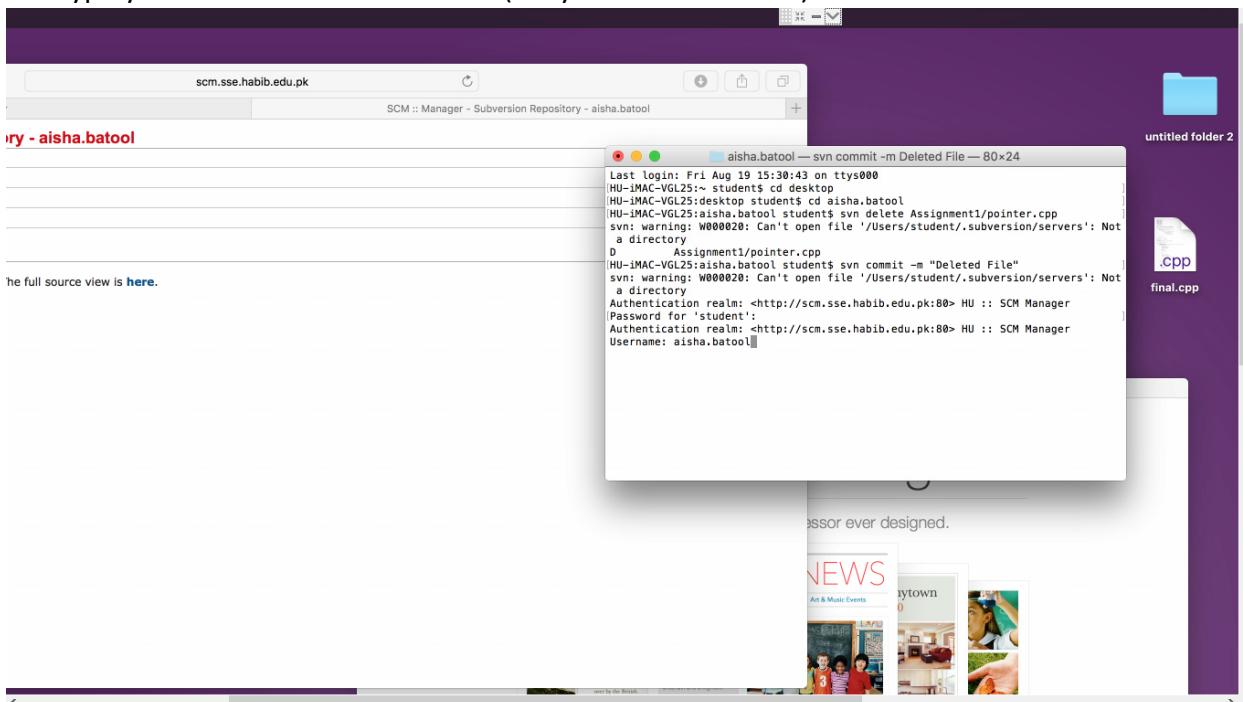


5. Type password for local pc user (i.e. student).

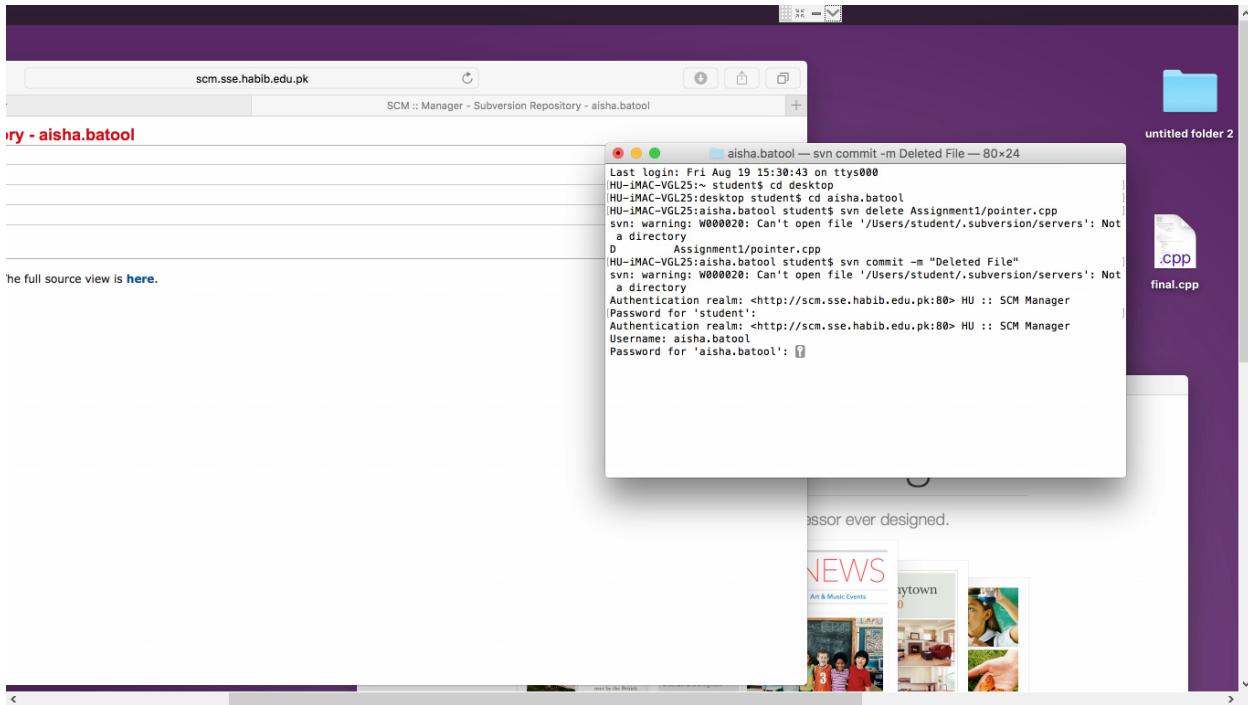


6. You will be asked to login. Do so with your Habib credentials.

Type your SVN account **username** (i.e. your HU username).

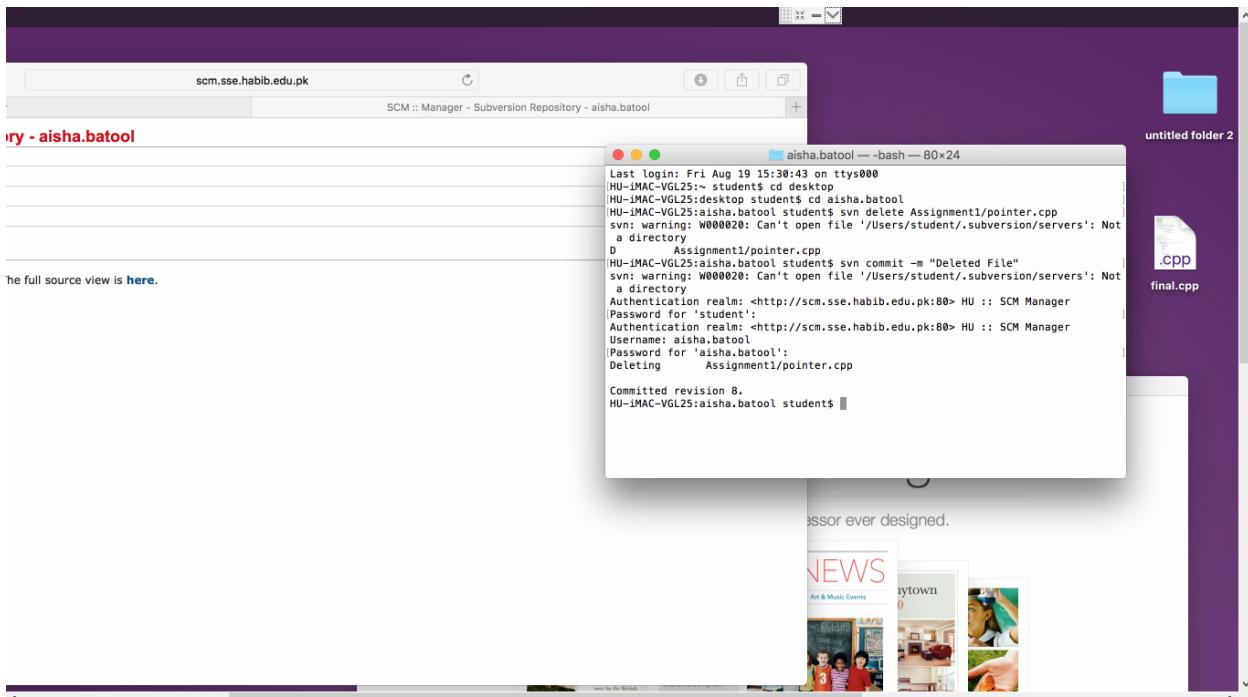


7. Type your SVN account **password** (i.e. your HU account password).



```
aisha.batool — svn commit -m Deleted File — 80x24
Last login: Fri Aug 19 15:38:43 on ttys000
HU-IMAC-VGL25:~ student$ cd desktop
HU-IMAC-VGL25:desktop student$ cd aisha.batool
HU-IMAC-VGL25:aisha.batool student$ svn delete Assignment1/pointer.cpp
svn: warning: W000020: Can't open file '/Users/student/.subversion/servers': Not
a directory
D Assignment1/pointer.cpp
HU-IMAC-VGL25:aisha.batool student$ svn commit -m "Deleted File"
svn: warning: W000020: Can't open file '/Users/student/.subversion/servers': Not
a directory
Authentication realm: <http://scm.sse.habib.edu.pk:80> HU :: SCM Manager
Password for 'student':
Authentication realm: <http://scm.sse.habib.edu.pk:80> HU :: SCM Manager
Username: aisha.batool
Password for 'aisha.batool': 
```

8. You will see a **log** of the files being committed. You are done!



```
aisha.batool — bash — 80x24
Last login: Fri Aug 19 15:38:43 on ttys000
HU-IMAC-VGL25:~ student$ cd desktop
HU-IMAC-VGL25:desktop student$ cd aisha.batool
HU-IMAC-VGL25:aisha.batool student$ svn delete Assignment1/pointer.cpp
svn: warning: W000020: Can't open file '/Users/student/.subversion/servers': Not
a directory
D Assignment1/pointer.cpp
HU-IMAC-VGL25:aisha.batool student$ svn commit -m "Deleted File"
svn: warning: W000020: Can't open file '/Users/student/.subversion/servers': Not
a directory
Authentication realm: <http://scm.sse.habib.edu.pk:80> HU :: SCM Manager
Password for 'student':
Authentication realm: <http://scm.sse.habib.edu.pk:80> HU :: SCM Manager
Username: aisha.batool
Password for 'aisha.batool':
Deleting Assignment1/pointer.cpp
Committed revision 8.
HU-IMAC-VGL25:aisha.batool student$ 
```

9. You can confirm the commit by inspecting the contents of your repository at:

<http://scm.sse.habib.edu.pk> (Step#9)

The files have been transmitted successfully on SVN.

