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# SVN INSTRUCTIONS

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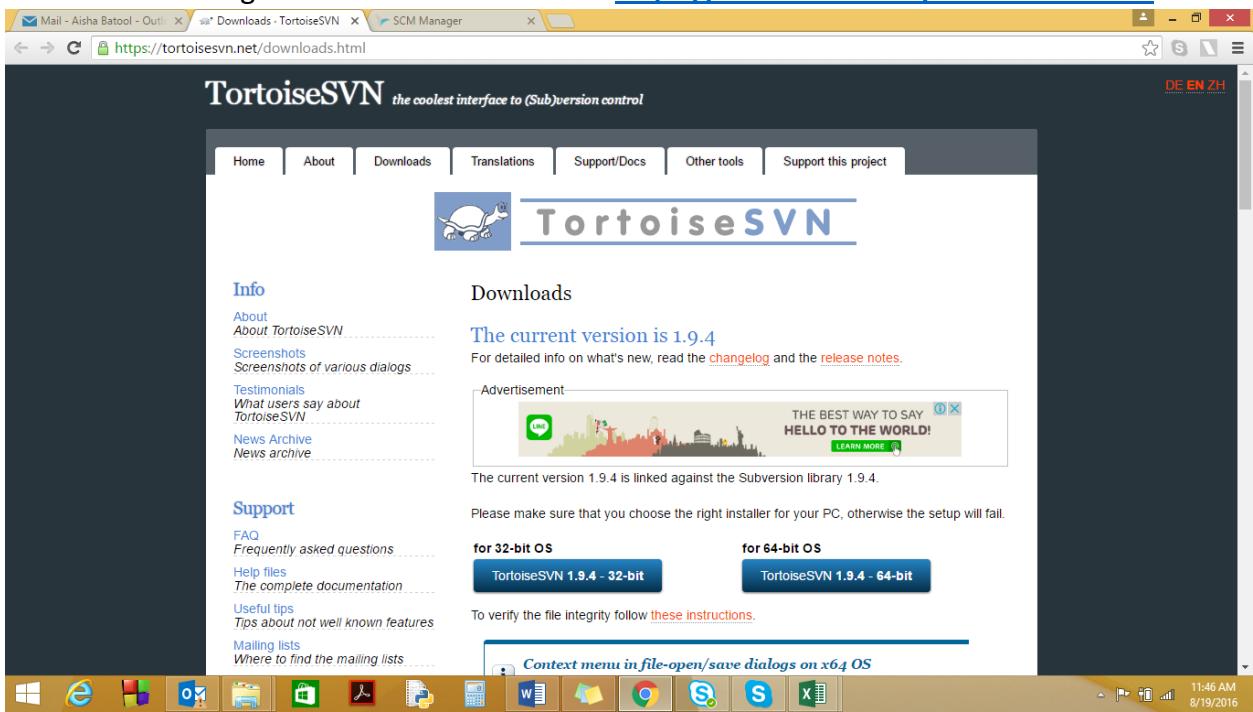
For Windows Using TortoiseSVN



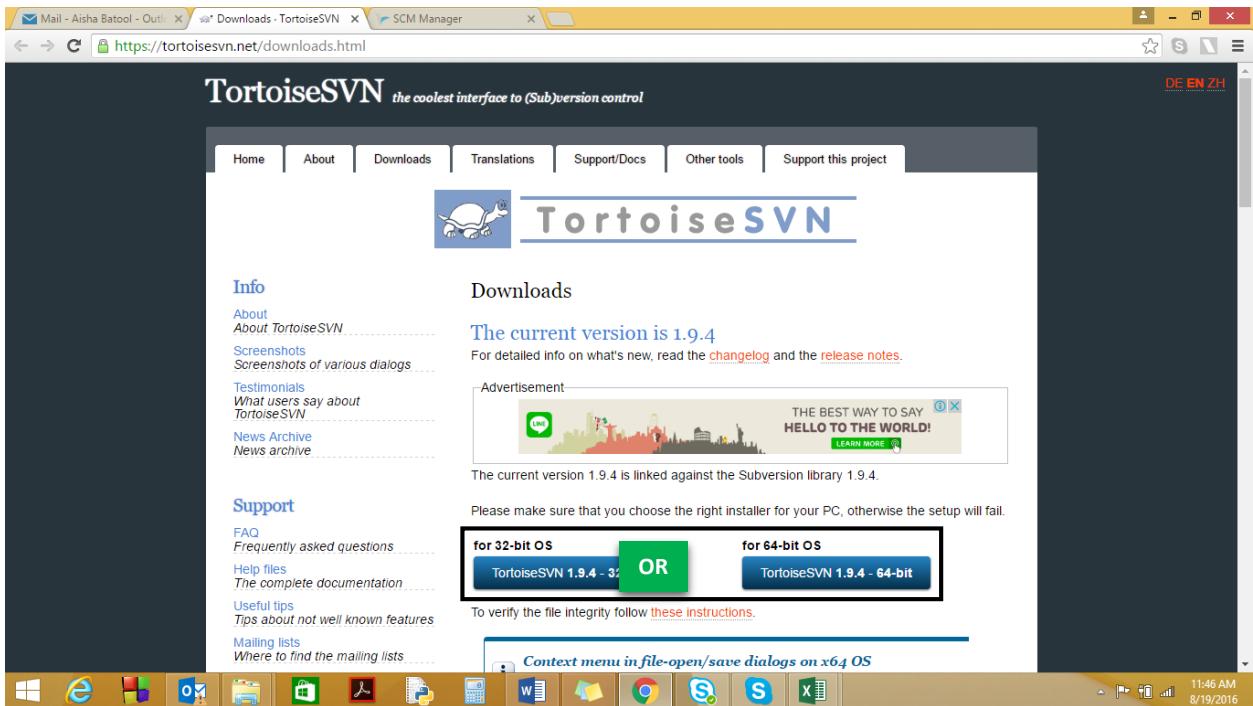
HABIB UNIVERSITY  
SCHOOL OF SCIENCE AND ENGINEERING  
COMPUTER SCIENCE DEPARTMENT

# Download Tortoise SVN

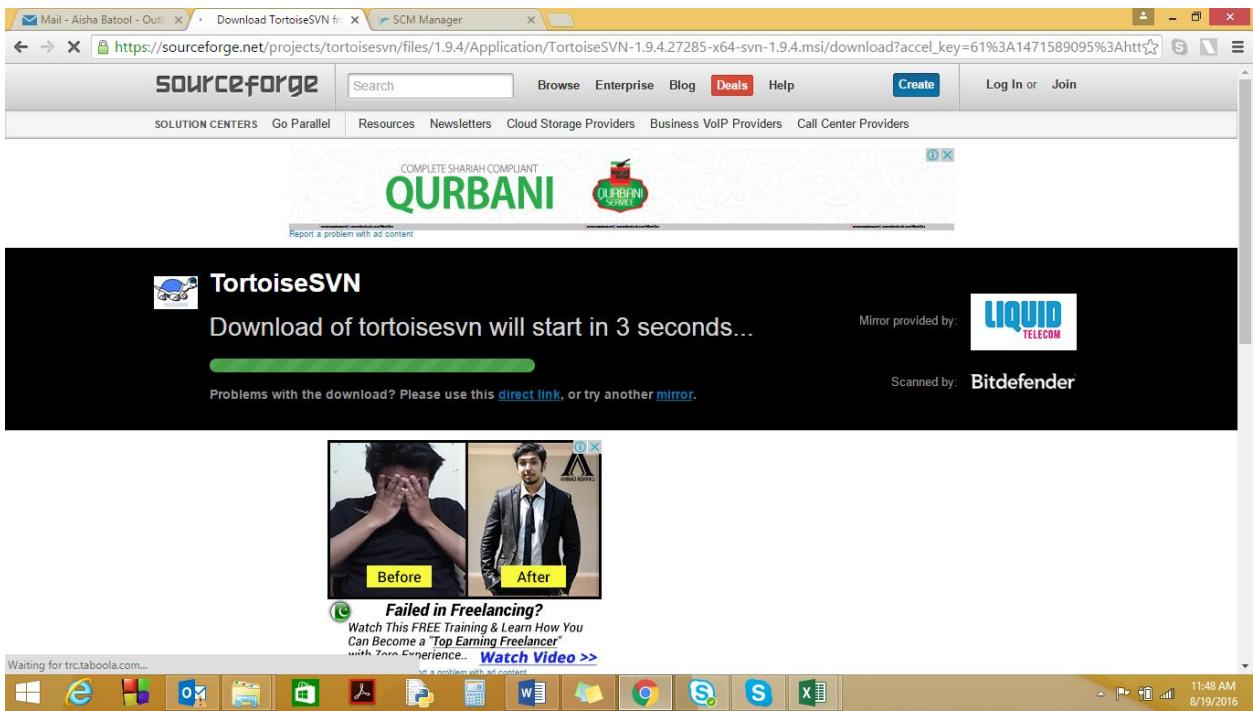
1. Go to the following website to download SVN: <https://tortoisessvn.net/downloads.html>



2. Download **TortoiseSVN** for 32-bit or 64-bit based on your operating system.

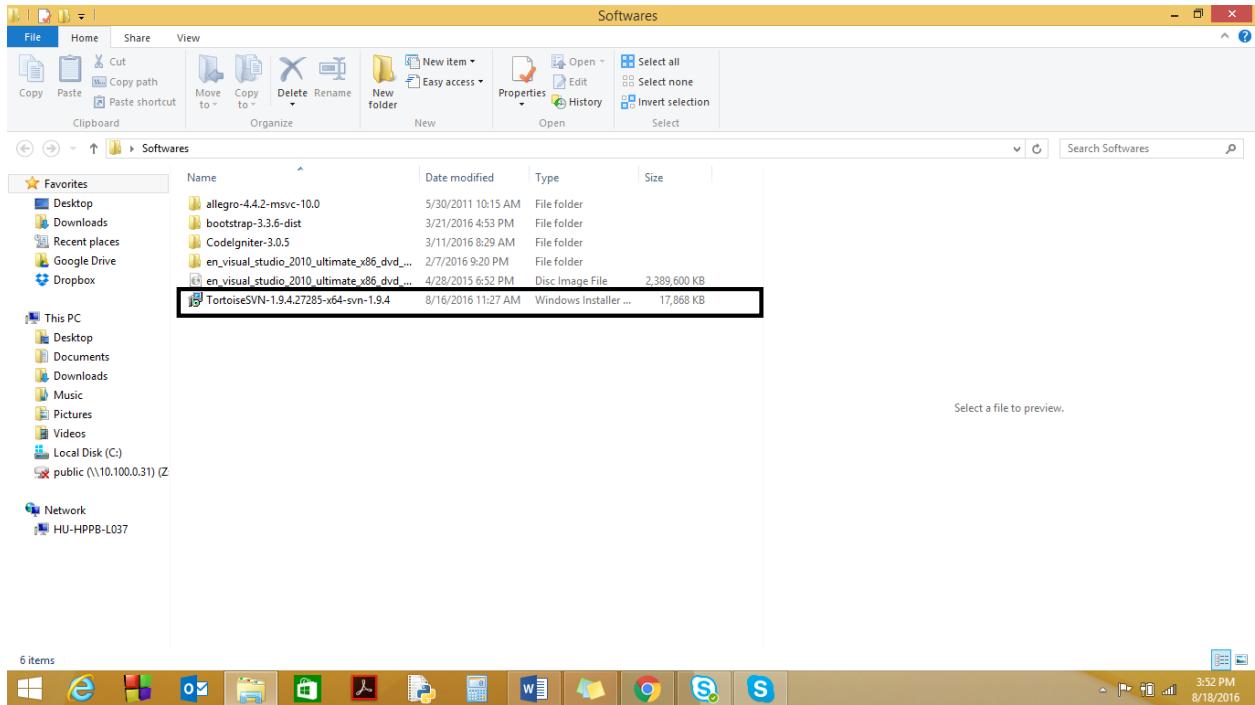


**3. Your download will begin.**

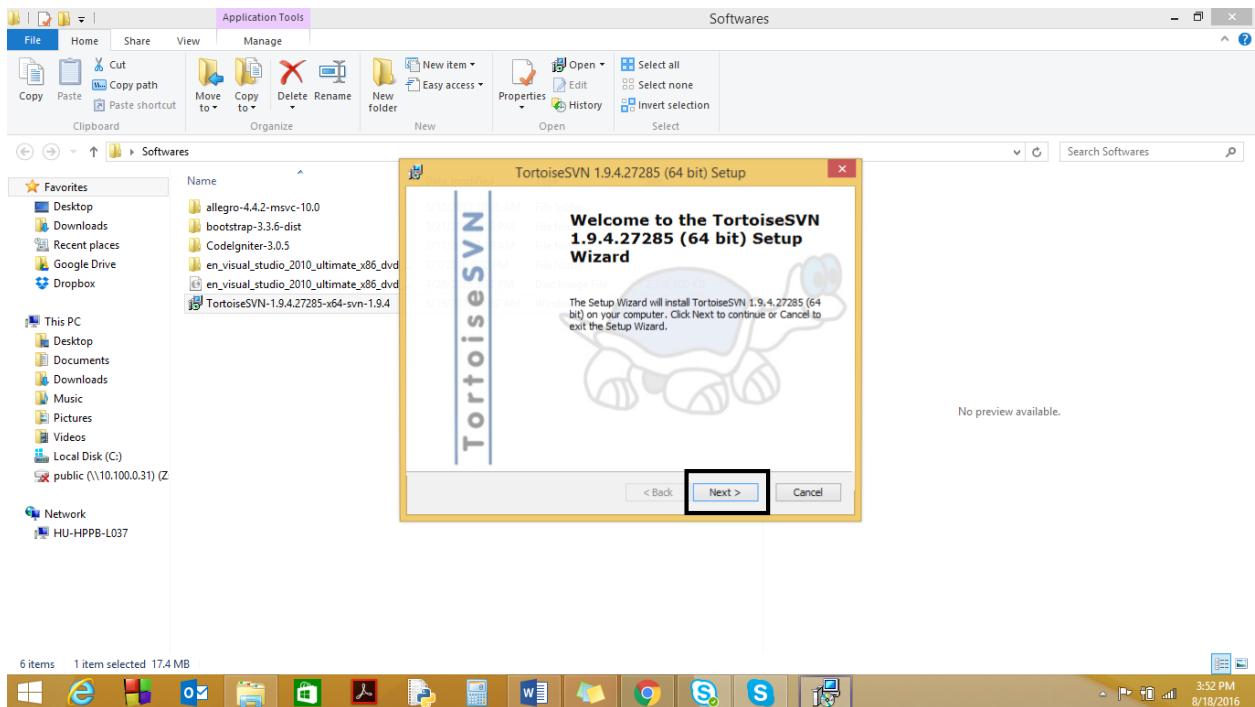


# Install Tortoise SVN

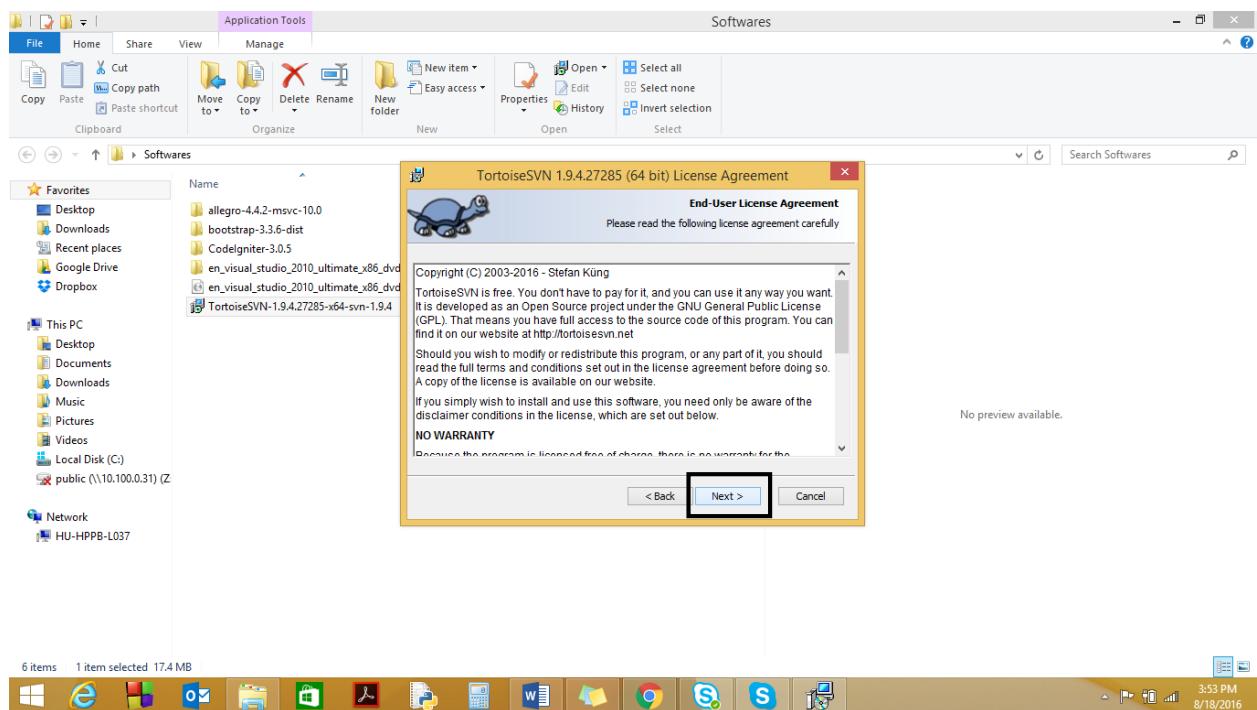
1. Click on Downloaded **TortoiseSVN-1.9.4.27285-x64-svn-1.9.4 - Windows Installer Package** file.



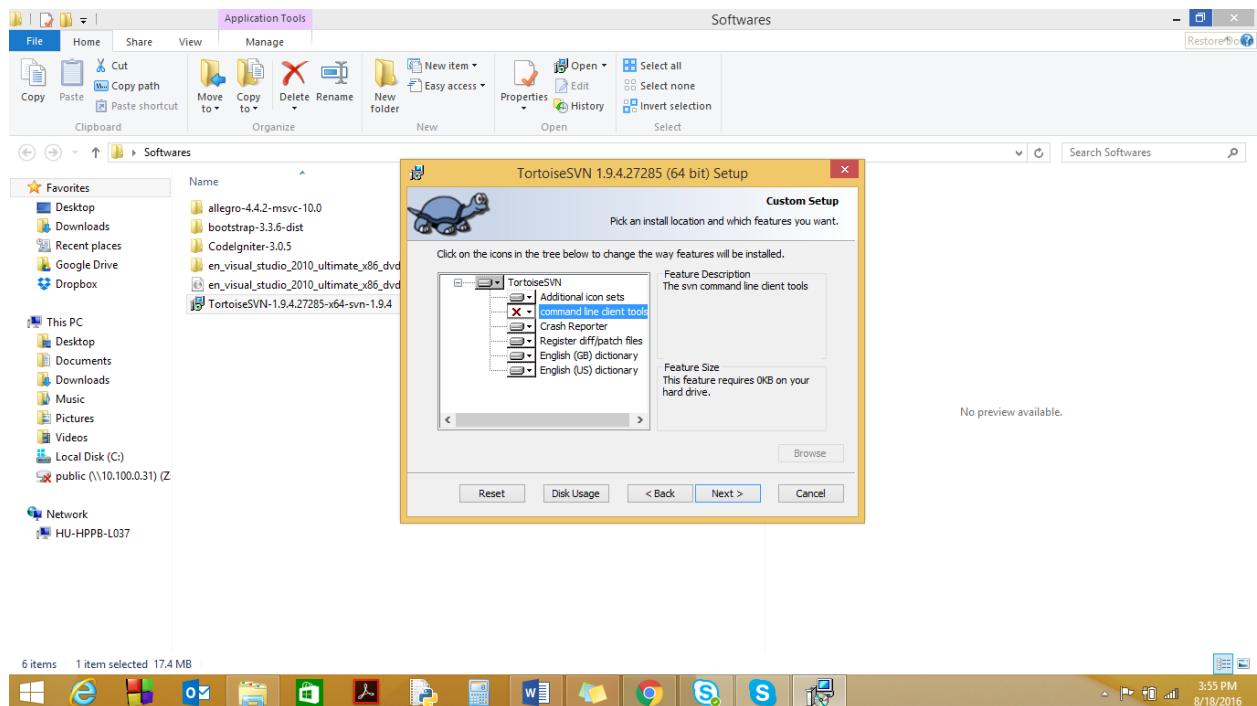
2. Click on Next.



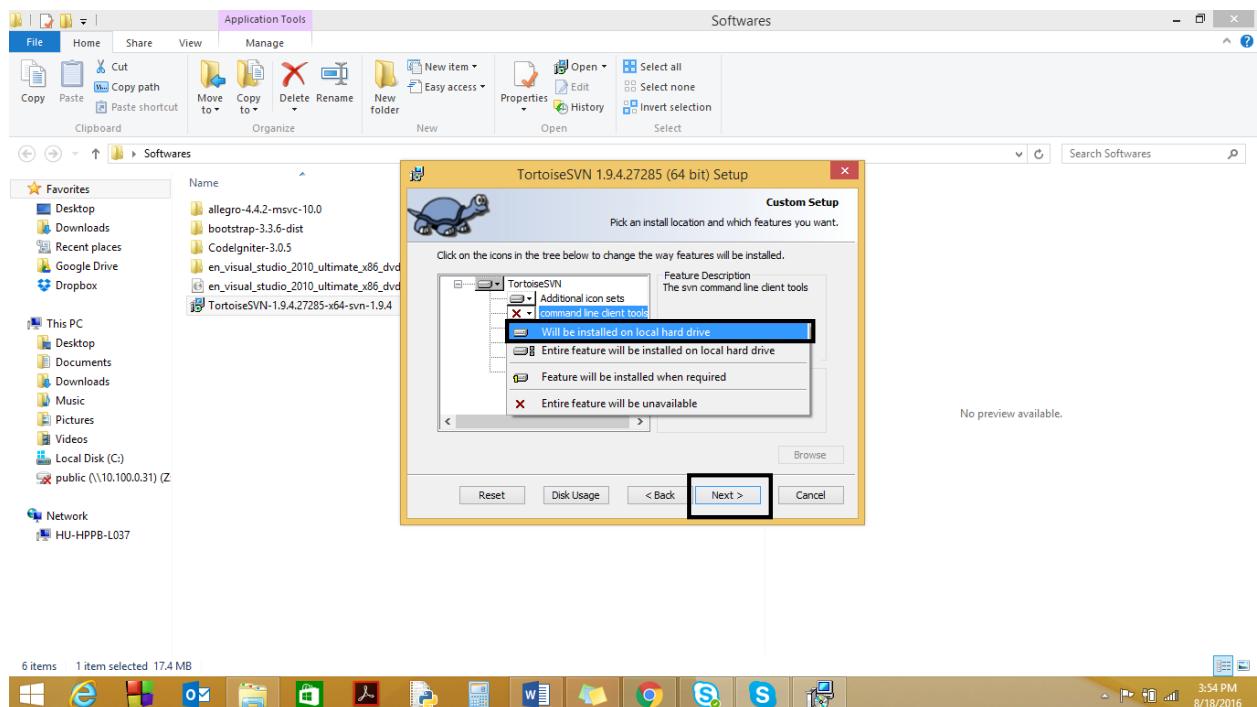
### 3. Click on Next.



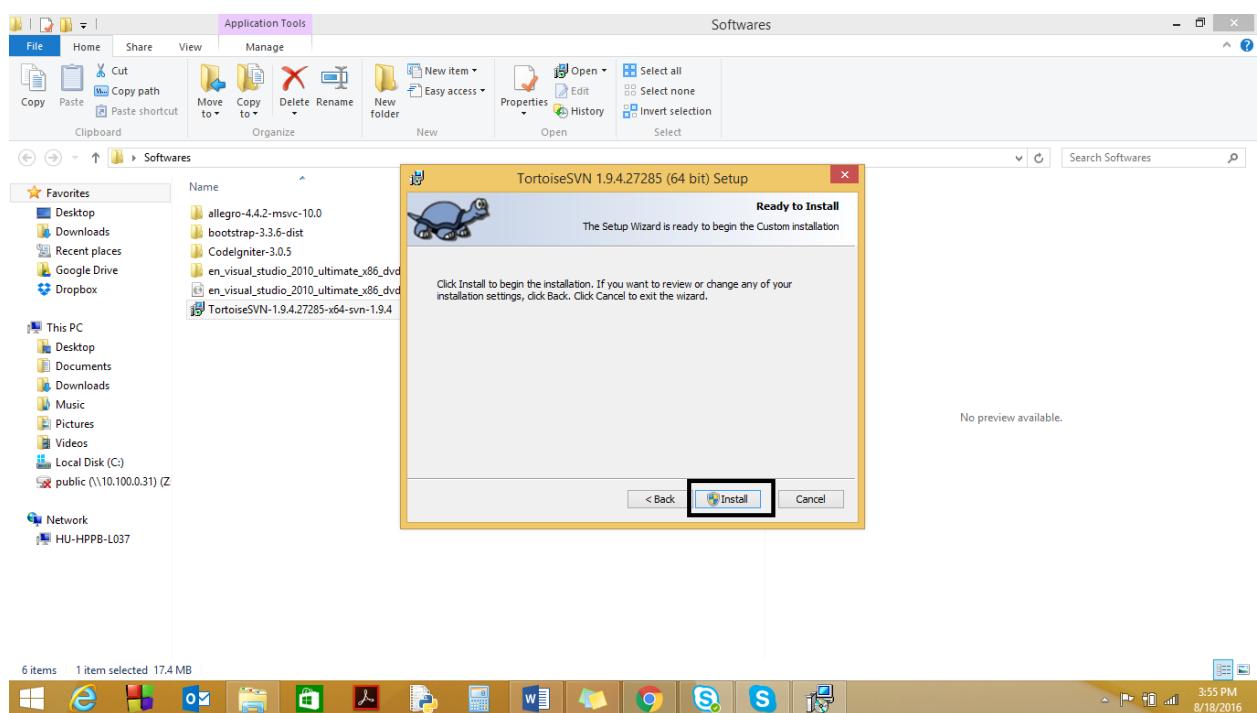
### 4. Following Screen will appear.



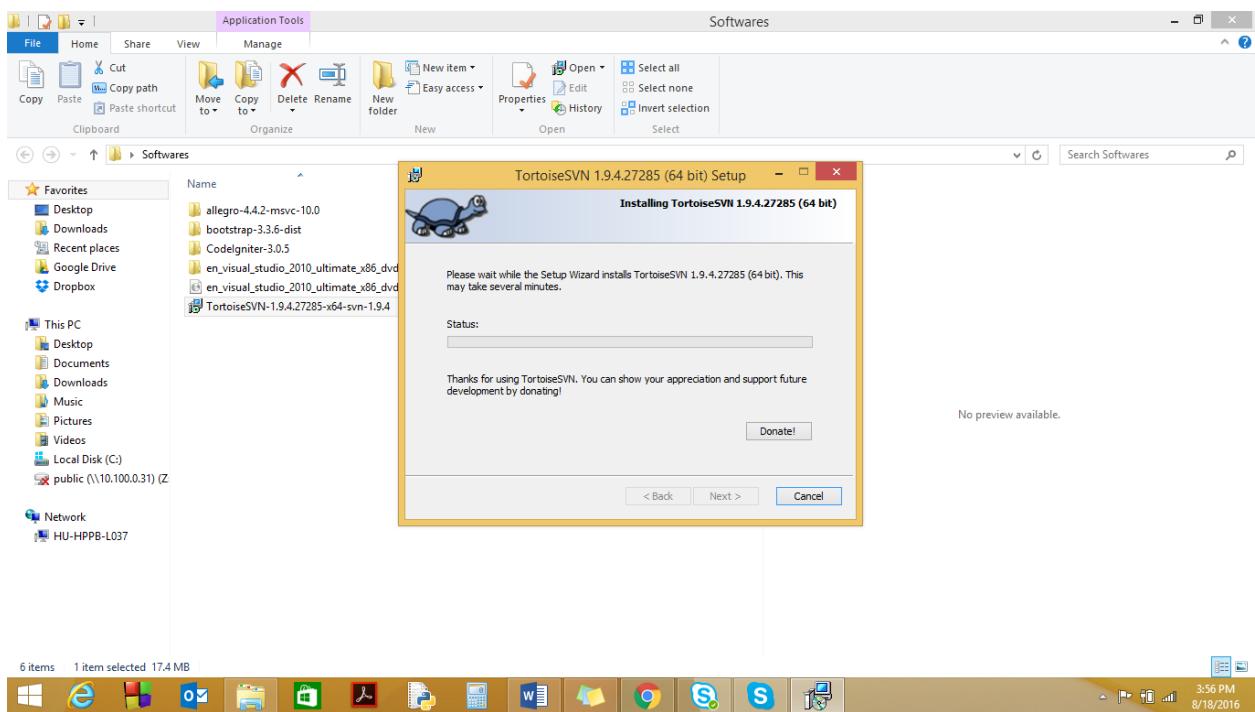
5. Click on **command line client tools**. A context menu will open.  
 From context menu, select - **Will be installed on local hard drive**.  
 Click on **Next**.



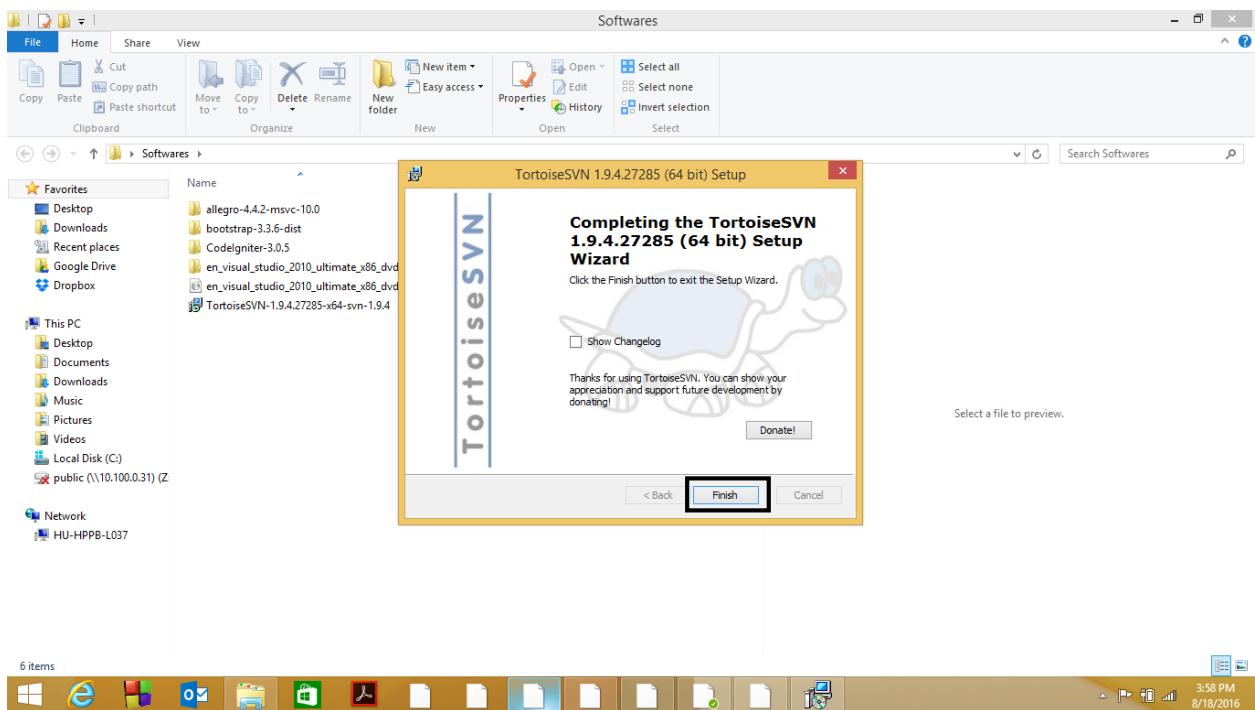
6. Click on **Install**.



## 7. Installation will begin.

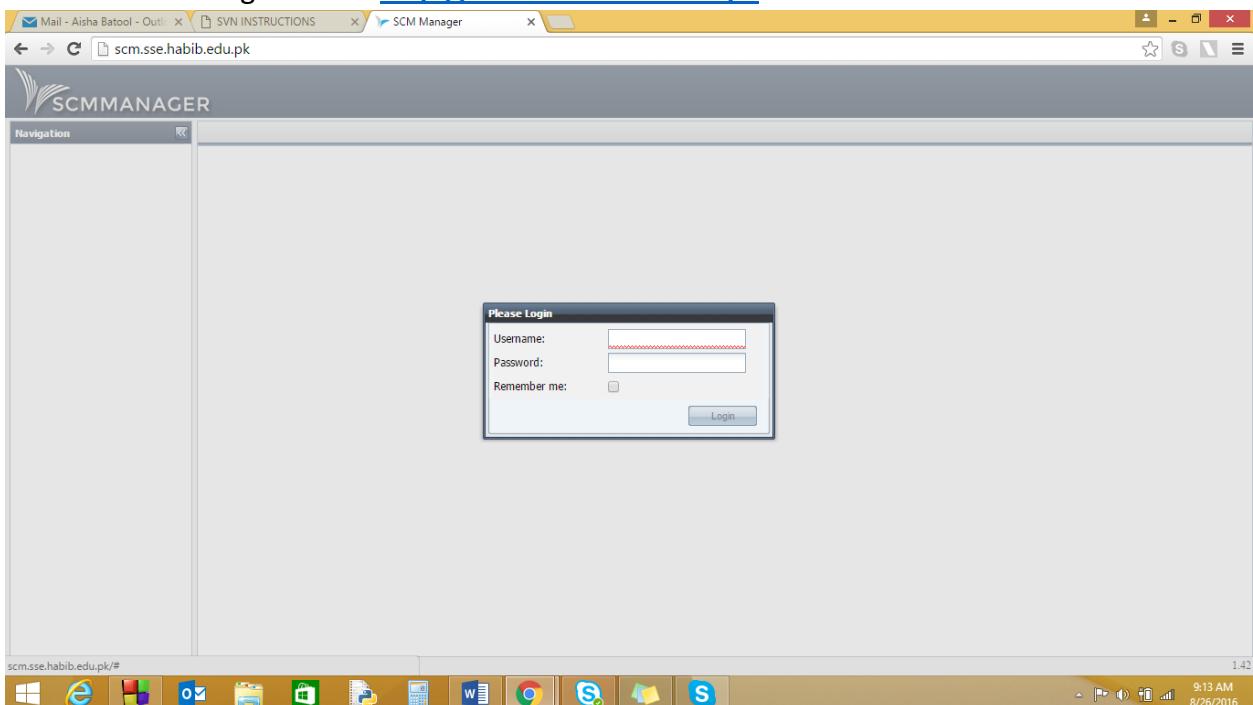


## 8. After setup will complete, following window will appear. Click on **Finish**.

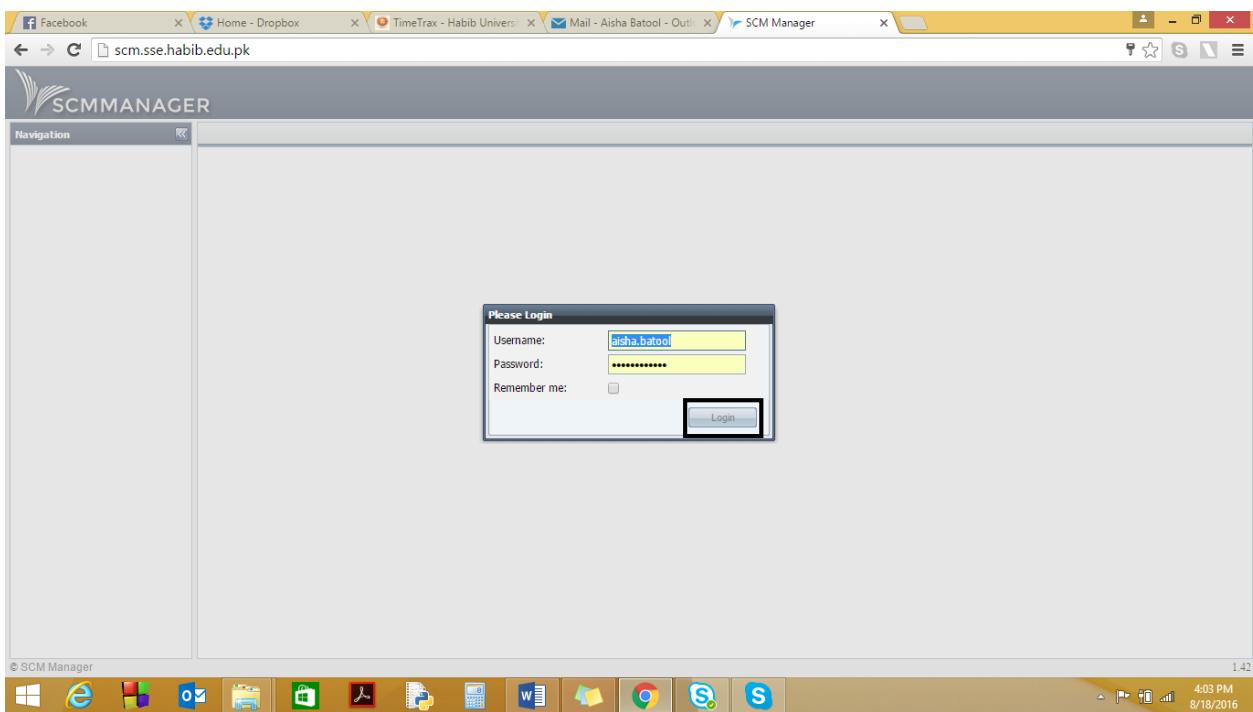


## Step#1 - Checkout URL

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** to login.



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

The screenshot shows the SCManager web application. The left sidebar has a 'Navigation' menu with 'Main', 'Repositories', 'Security', 'Group Manager', and 'Log out'. The main area is titled 'Repositories' and lists three entries:

Name	Contact	Description	Creation date	Url
Document (1 Repository)				
IntroToLinux	fahd.aziz@sse.habib.ed...	Introduction To Linux Document	2014-08-26 16:03:26	<a href="http://scm.sse.habib.edu.pk/svn/Document/IntroToLi...">http://scm.sse.habib.edu.pk/svn/Document/IntroToLi...</a>
main (2 Repositories)				
CS224-Fall16	qasim.pasta@sse.habib...	Course material for the Fall 2016 offering of CS224 Object Oriented Programming ...	2016-08-15 14:05:49	<a href="http://scm.sse.habib.edu.pk/svn/CS224-Fall16">http://scm.sse.habib.edu.pk/svn/CS224-Fall16</a>
aisha.batool	aisha.batool@sse.habib...		2016-08-19 12:41:03	<a href="http://scm.sse.habib.edu.pk/svn/aisha.batool">http://scm.sse.habib.edu.pk/svn/aisha.batool</a>

At the bottom, there is a 'Repository Form' section with the placeholder 'Add or select an Repository'.

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

The screenshot shows the SCManager interface with the 'aisha.batool' repository selected. The left sidebar remains the same. The main area shows the repository details:

Name	Contact	Description	Creation date	Url
Document (1 Repository)				
IntroToLinux	fahd.aziz@sse.habib.ed...	Introduction To Linux Document	2014-08-26 16:03:26	<a href="http://scm.sse.habib.edu.pk/svn/Document/IntroToLi...">http://scm.sse.habib.edu.pk/svn/Document/IntroToLi...</a>
main (2 Repositories)				
CS224-Fall16	qasim.pasta@sse.habib...	Course material for the Fall 2016 offering of CS224 Object Oriented Programming ...	2016-08-15 14:05:49	<a href="http://scm.sse.habib.edu.pk/svn/CS224-Fall16">http://scm.sse.habib.edu.pk/svn/CS224-Fall16</a>
<b>aisha.batool</b>	aisha.batool@sse.habib...		2016-08-19 12:41:03	<a href="http://scm.sse.habib.edu.pk/svn/aisha.batool">http://scm.sse.habib.edu.pk/svn/aisha.batool</a>

Below the table, tabs for 'Settings', 'Permissions', 'Author Mapping', 'Statistics', 'Notification', and 'Jenkins' are visible. The 'aisha.batool' tab is active. The details pane shows:

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: svn checkout <http://aisha.batool@scm.sse.habib.edu.pk/svn/aisha.batool>

At the bottom, there is a 'Commits, Source' link.

5. Copy the **checkout URL** from the webpage. It is at the bottom of the page when you click on your **repository**.

Copy the **URL** given in **Checkout**. Copy the URL given after svn checkout.

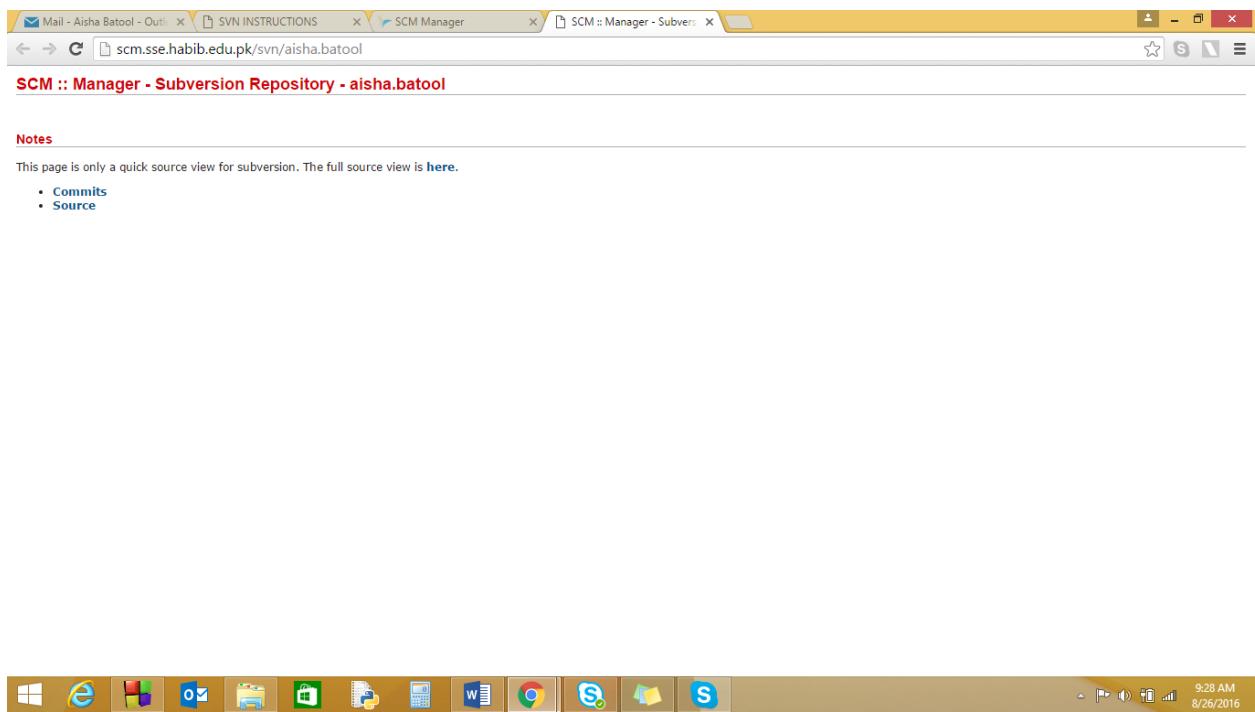
The screenshot shows the SCManager application interface. On the left is a navigation sidebar with 'Main', 'Repositories', 'Security', and 'Log out' options. The main area displays a table of repositories. One row for 'aisha.batool' is selected, showing its details: Name: aisha.batool, Type: Subversion (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 context menu is open over this row, with 'Copy' highlighted. The status bar at the bottom right shows 'logged in as aisha.batool - 1.42' and the date/time '8/19/2016 1:17 PM'.

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

Repository URL is given under **Url** when you click on your repository.

This screenshot is identical to the one above, showing the SCManager interface with the 'aisha.batool' repository selected. The context menu is open over the repository row, and the 'Open link in new tab' option is highlighted. The status bar at the bottom right shows 'logged in as aisha.batool - 1.42' and the date/time '8/26/2016 9:25 AM'.

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



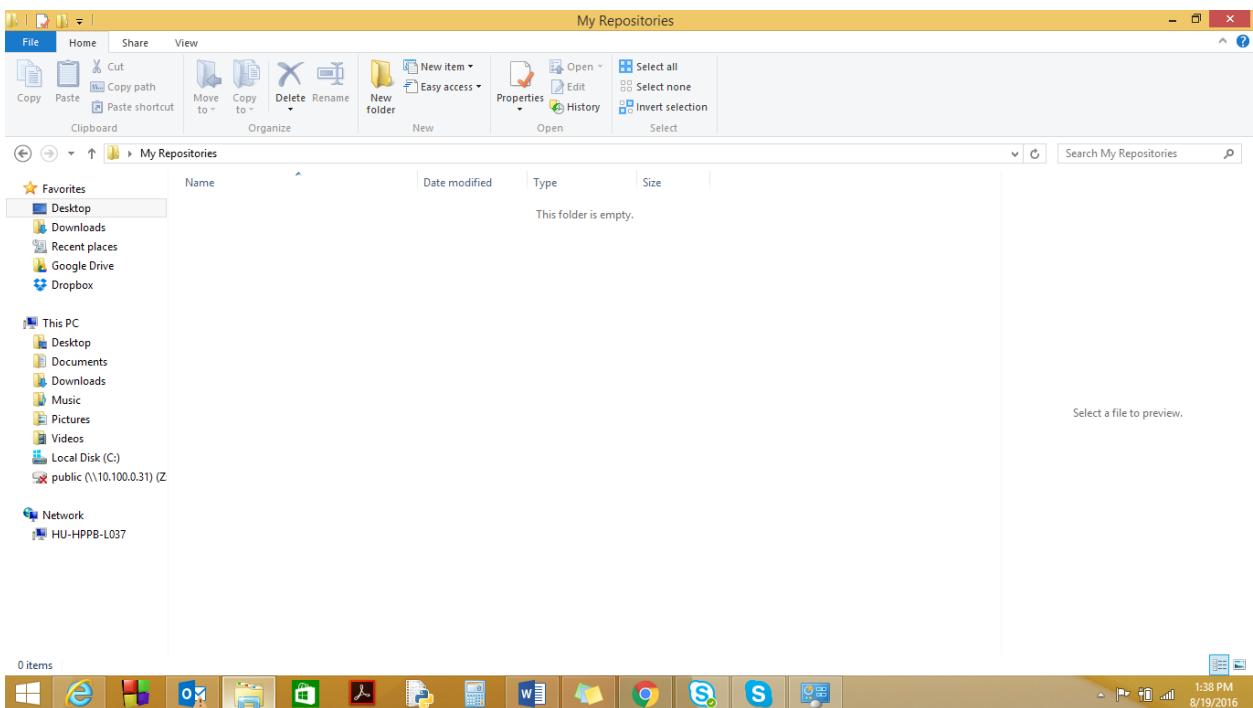
## Step#2 – Go To The Directory You Want to Checkout The repository

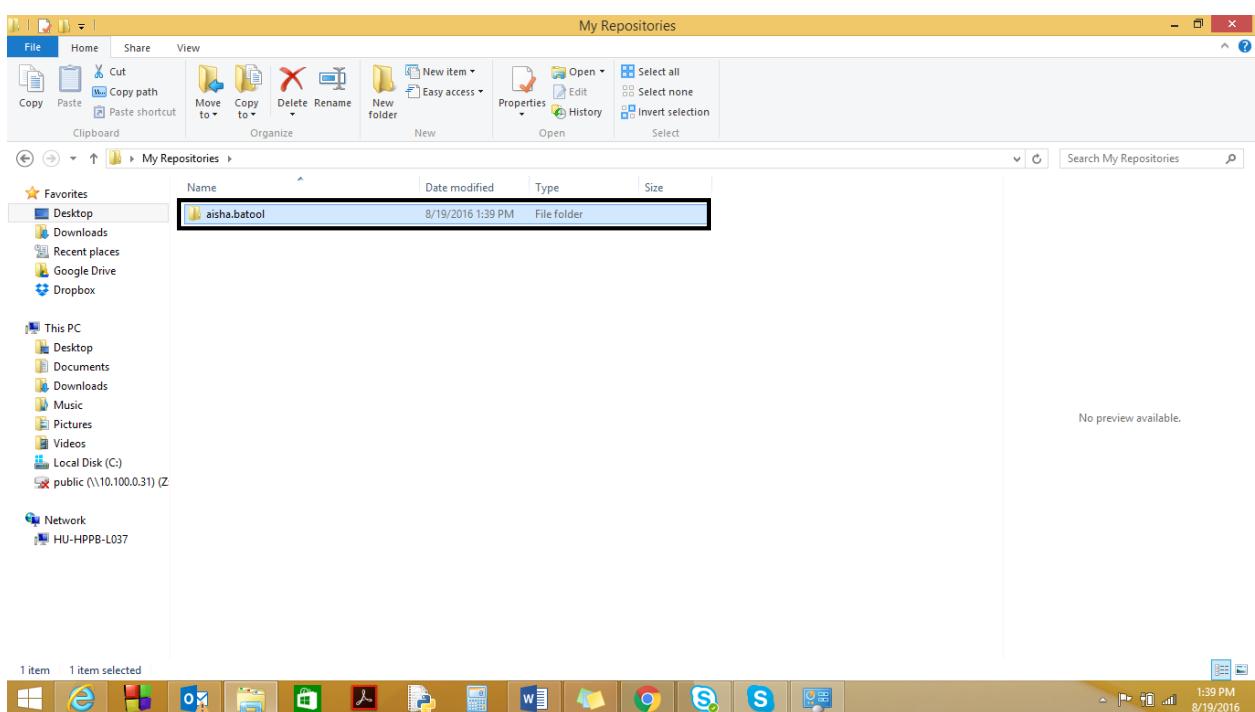
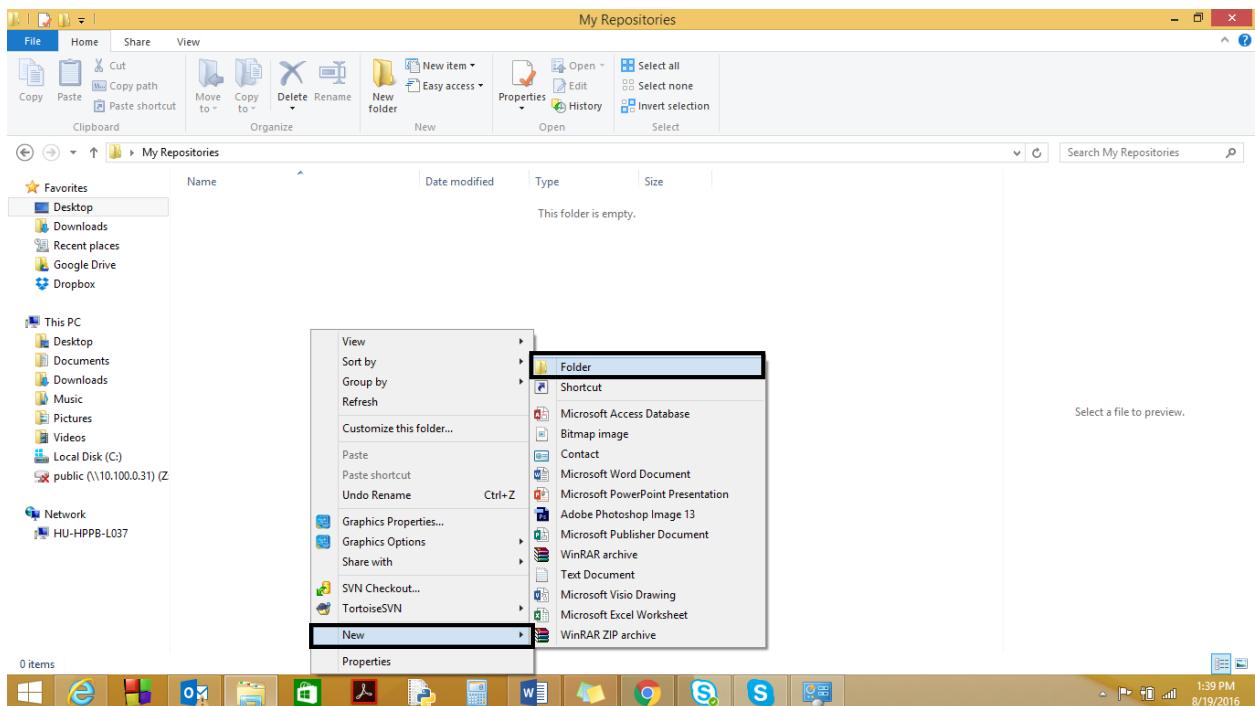
1. Go to the directory you want to **Checkout** the SVN Repository.

Create a **folder** with the **similar name** as your **repository** (to avoid confusion).

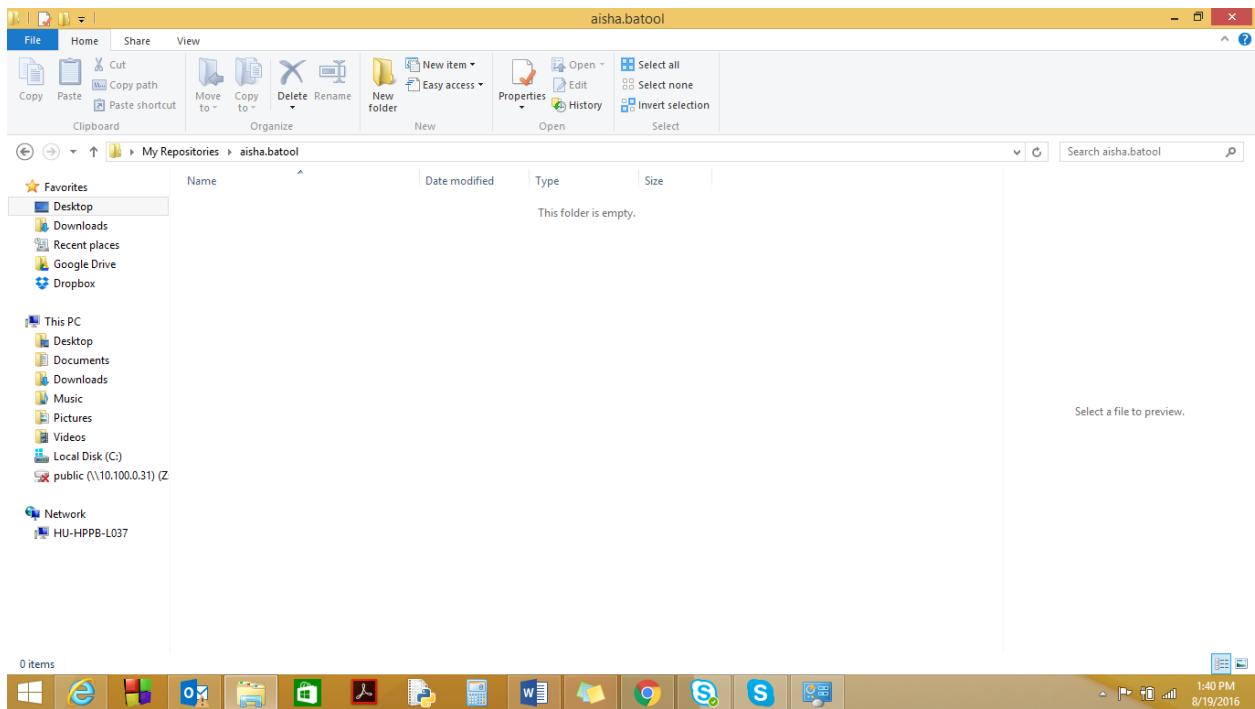
**Note:**

- *If the directory is empty, SVN directly checkout the repository on the directory without creating the folder with your repository name.*
- *If the directory is not empty, it will create a folder with the name of the repository].*





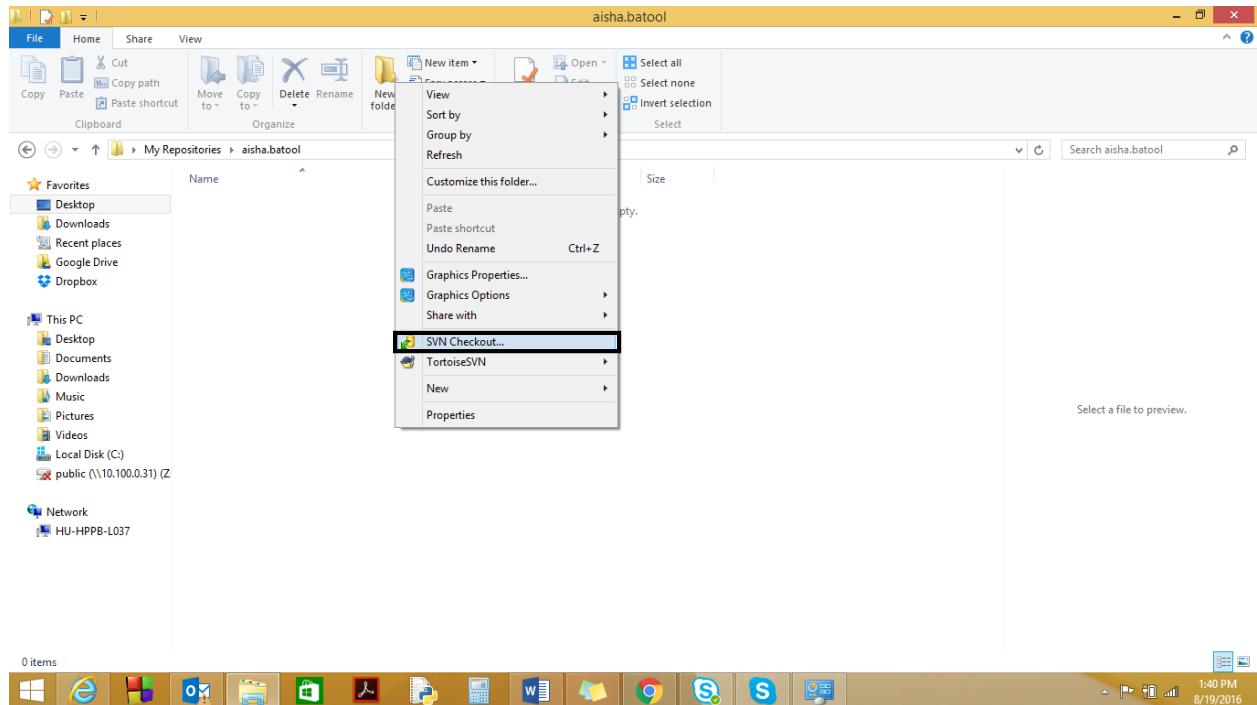
2. Go inside the created folder with the same name as your repository.



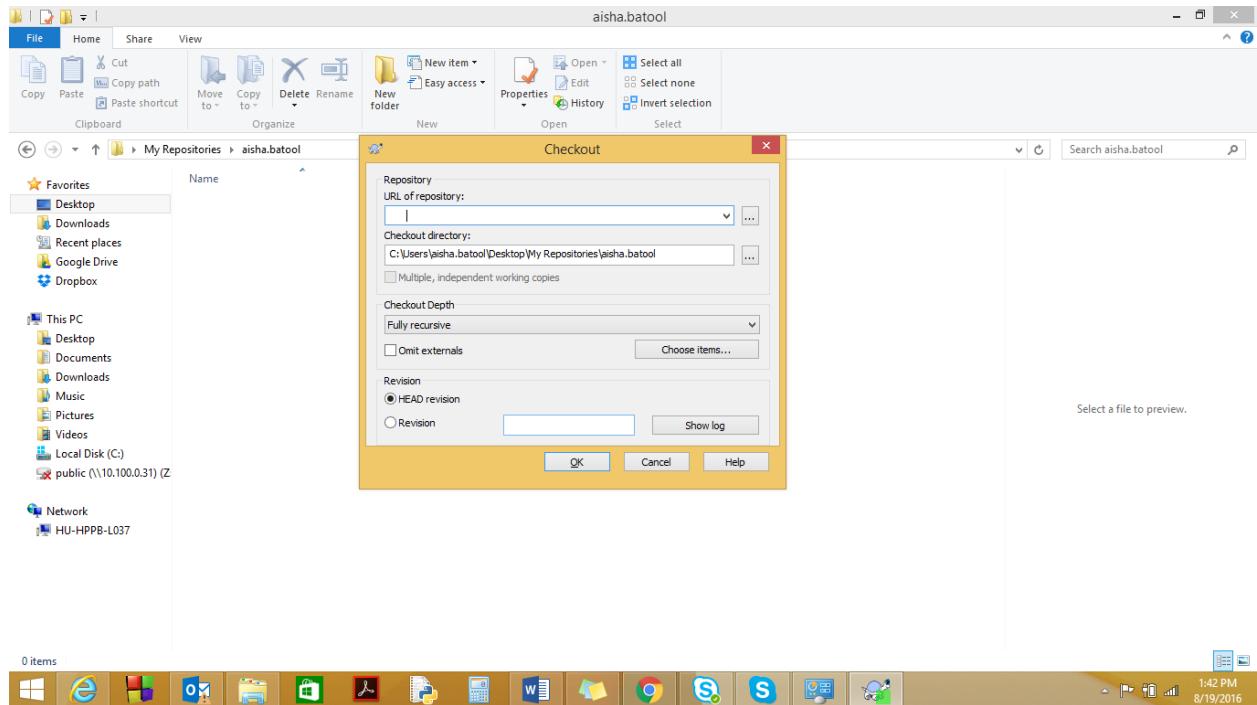
## Step#3 – Checkout The repository

1. Right Click on the screen. Context menu will appear.

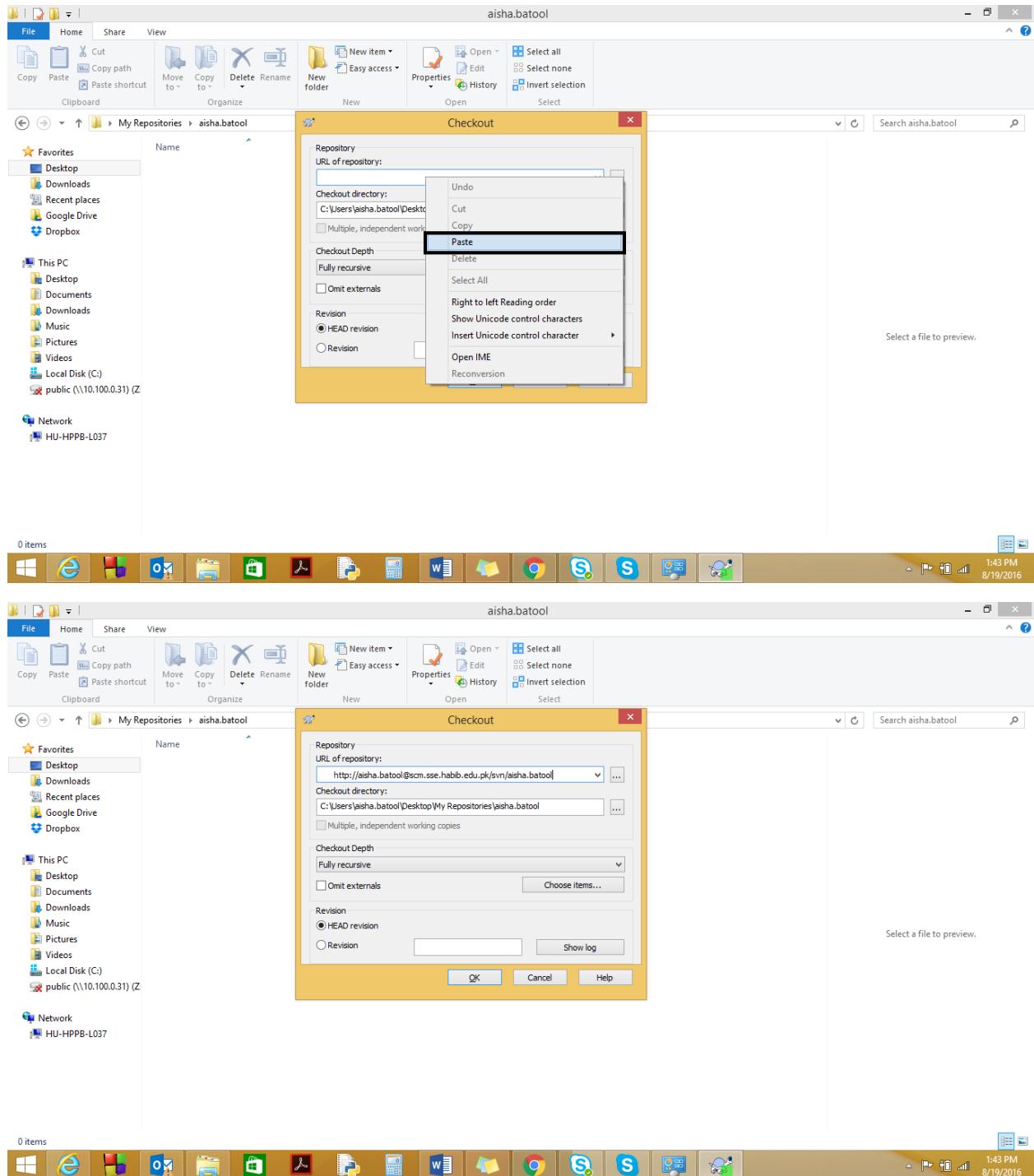
Select **SVN Checkout**.



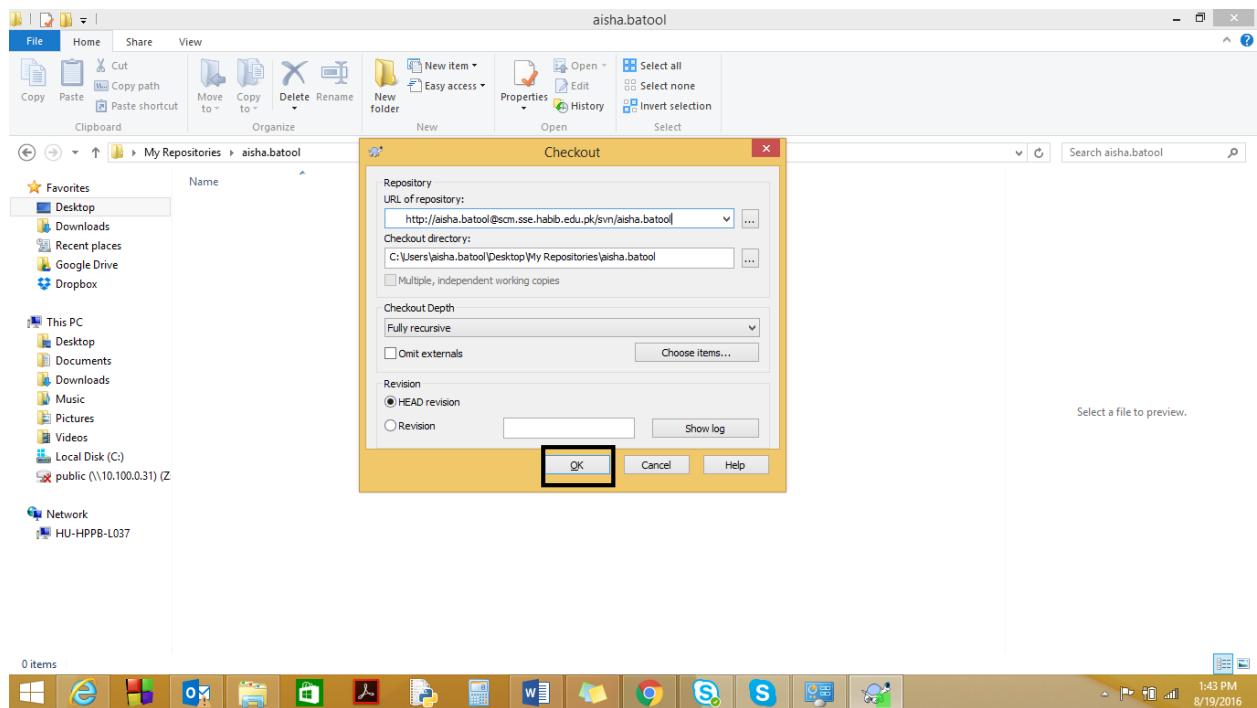
2. Following window will appear.



### 3. Paste the CheckOut URL of repository – You copied in Step#1 (5).

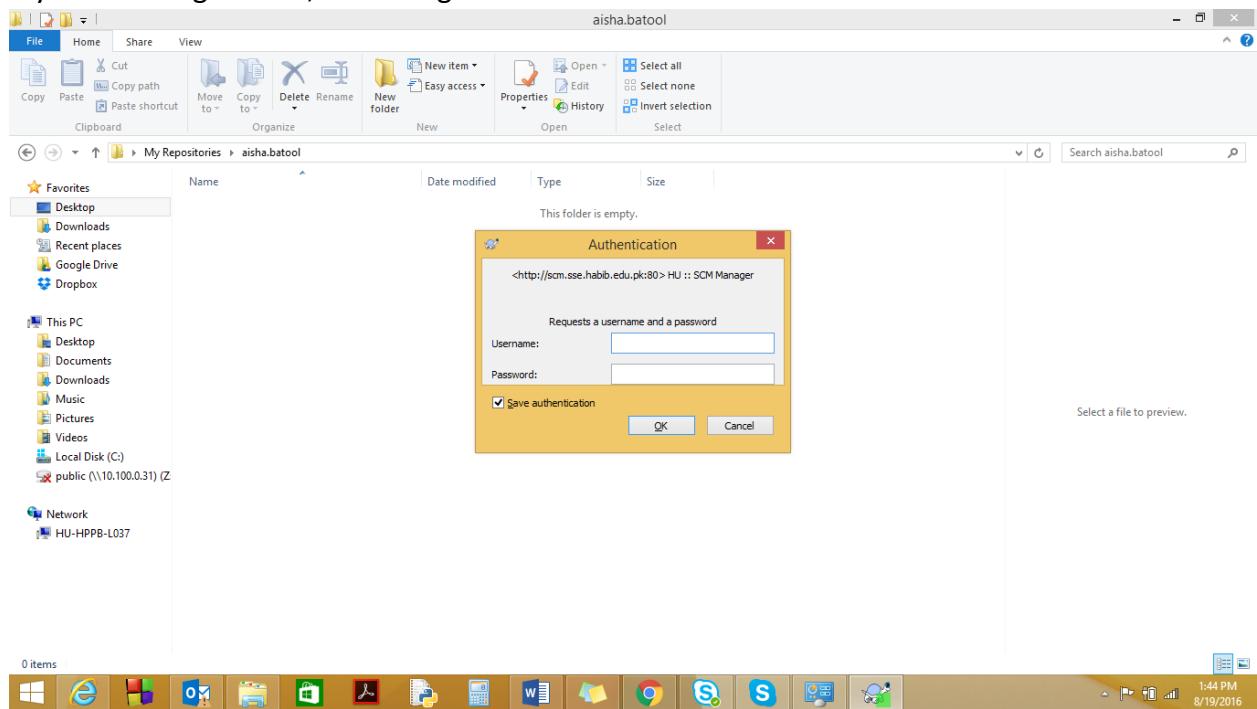


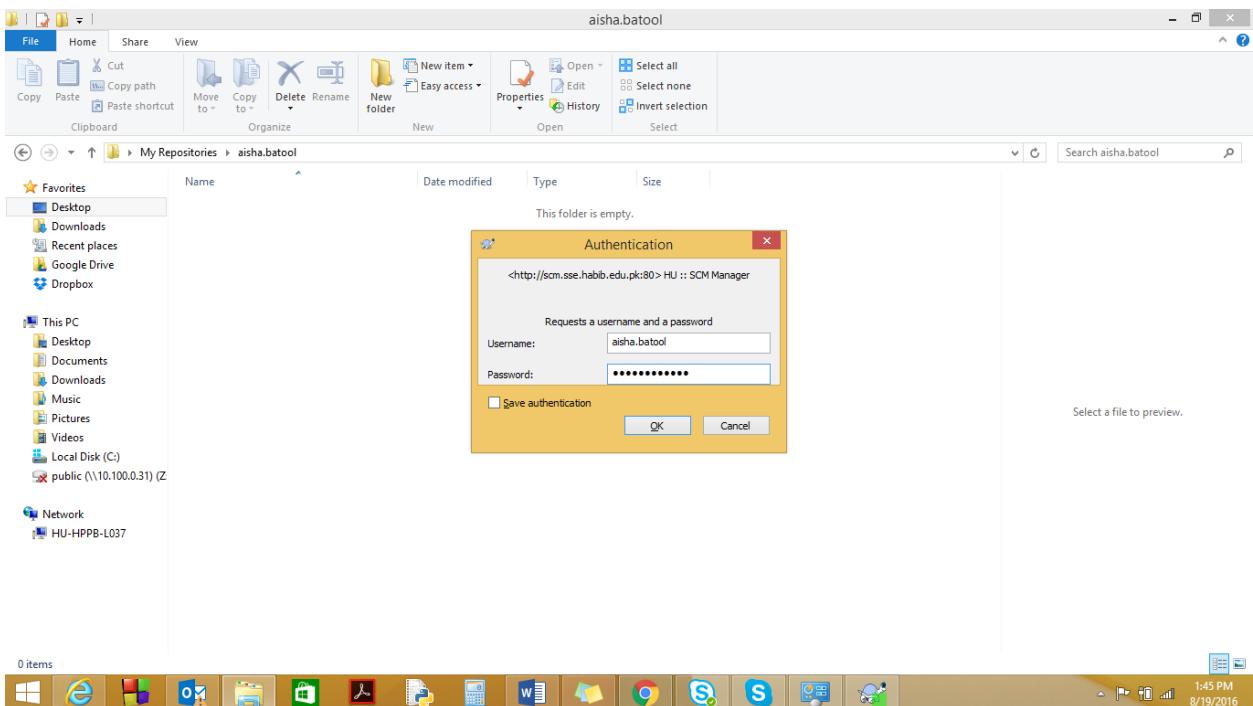
**4. Click on OK.**



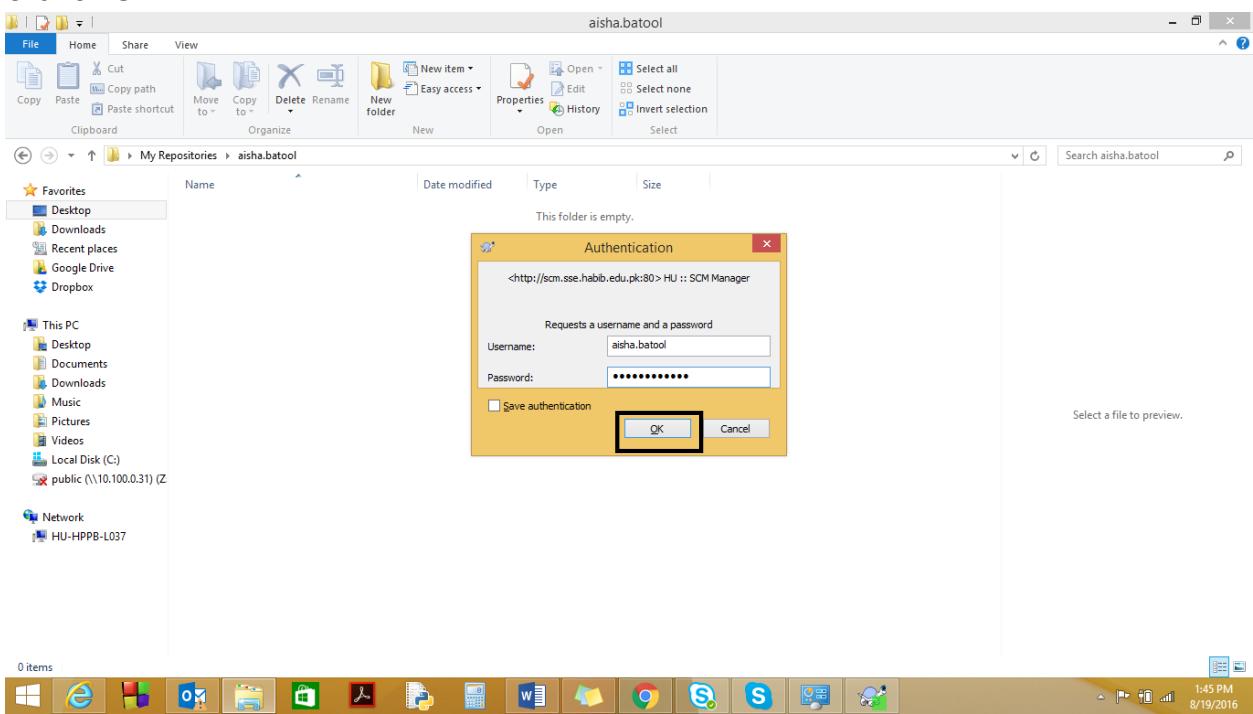
**5. Authentication window will open. Enter your **SVN username** and **password** (Your Habib credentials i.e. HU Username & Password).**

If you are using lab PCs, don't forget to uncheck **Save Authentication**.



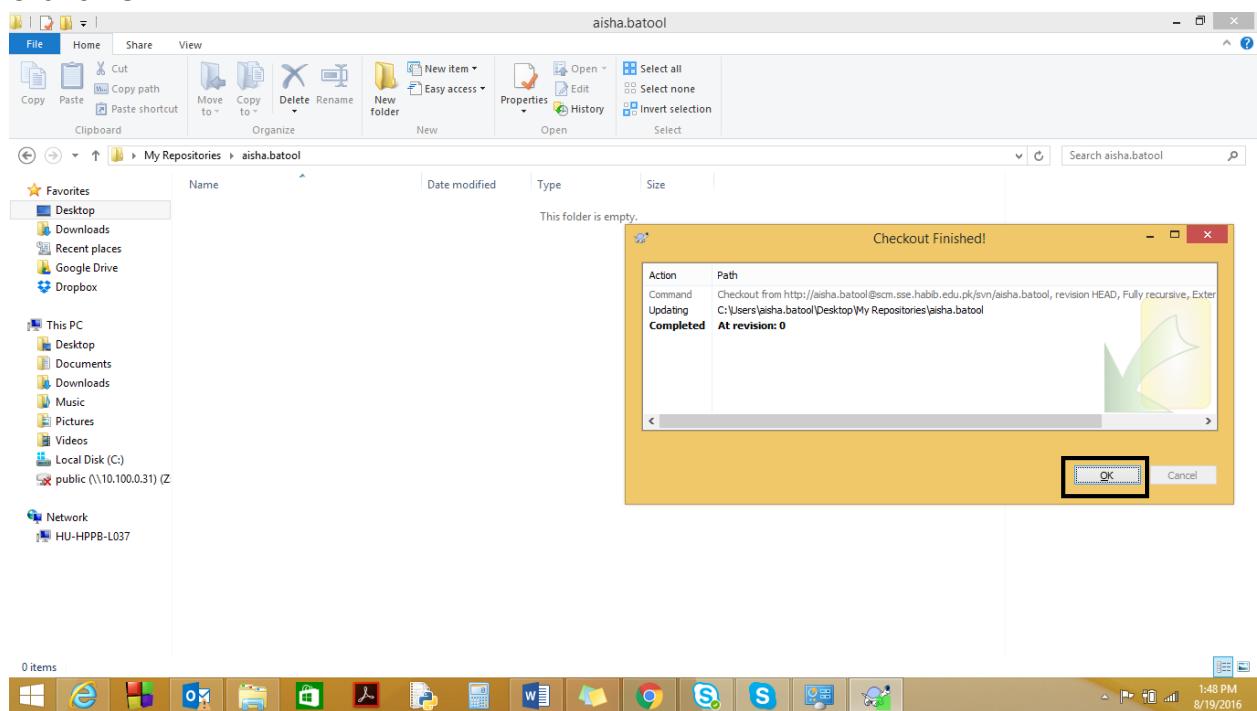


## 6. Click on OK.



7. Repository have been **checkout** successfully. This is your **Working Copy**.

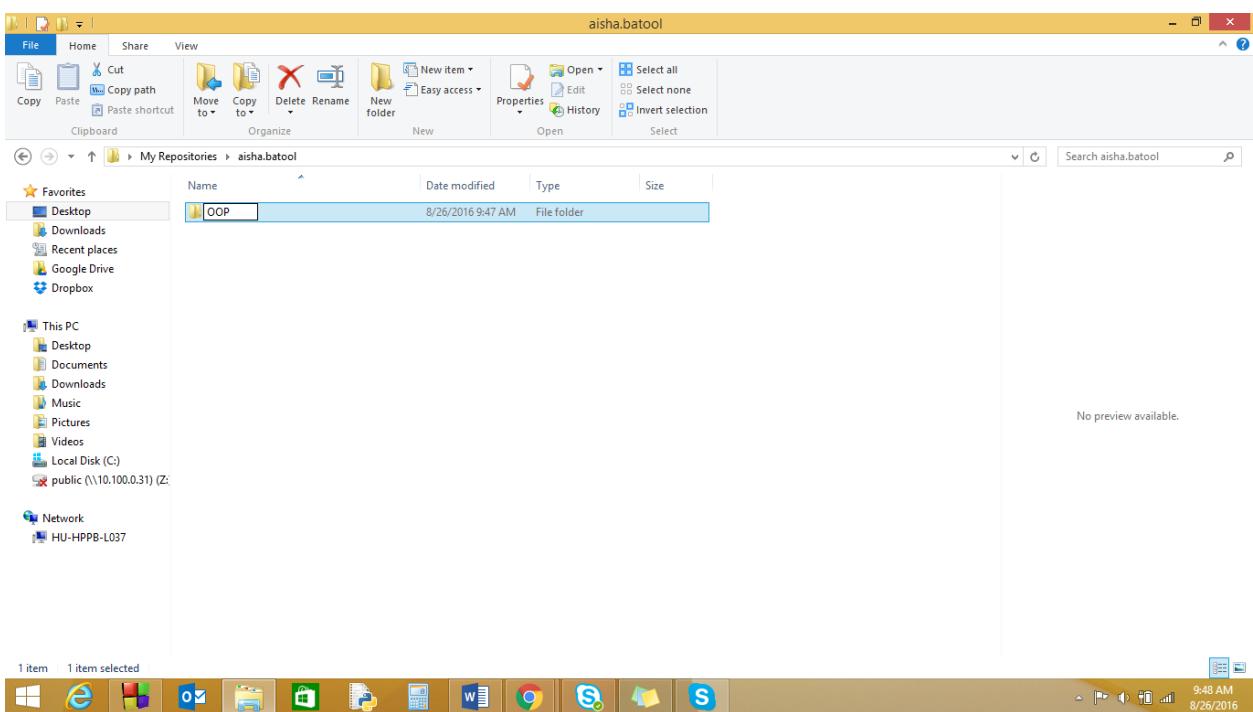
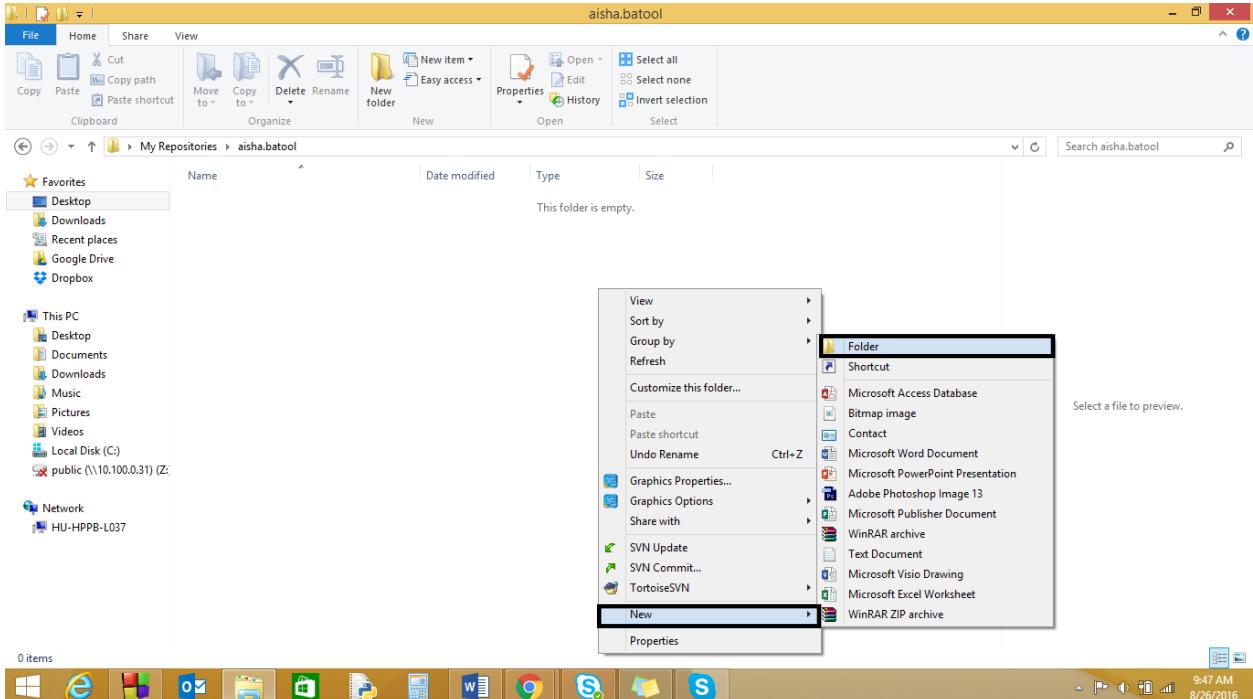
Click on **OK**.

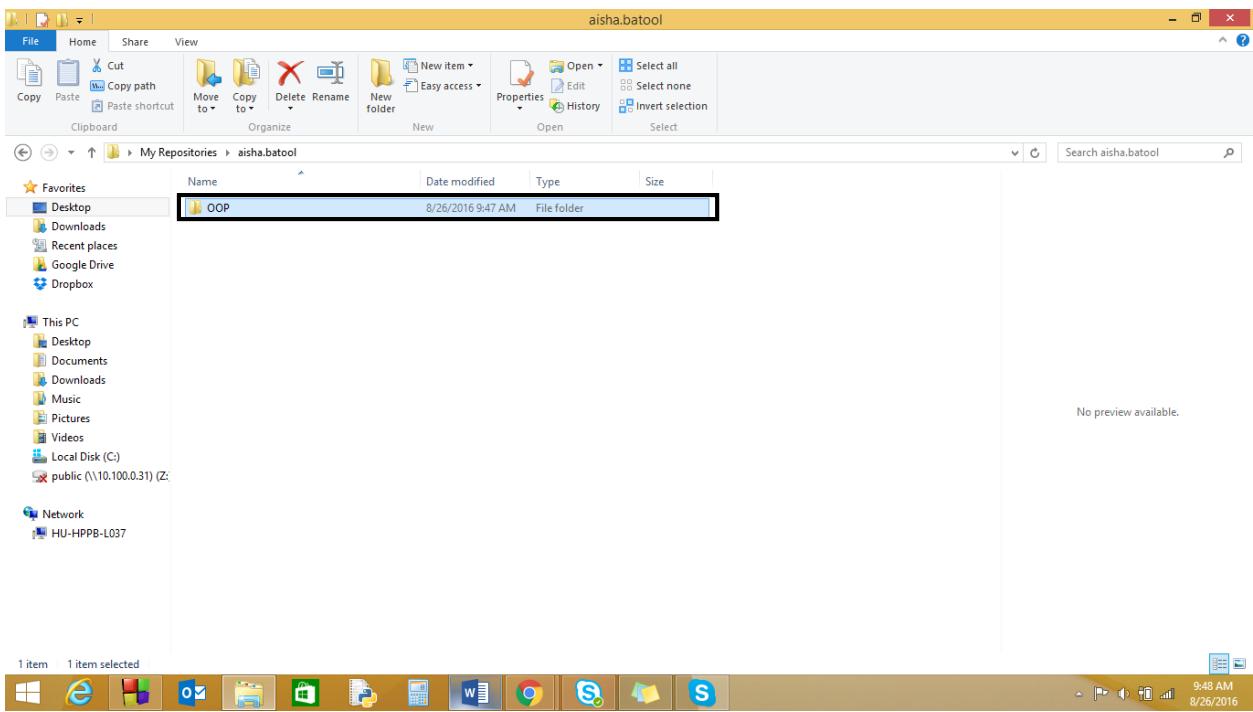


*Since our repository is empty right now, there are no files in our Working Copy.*

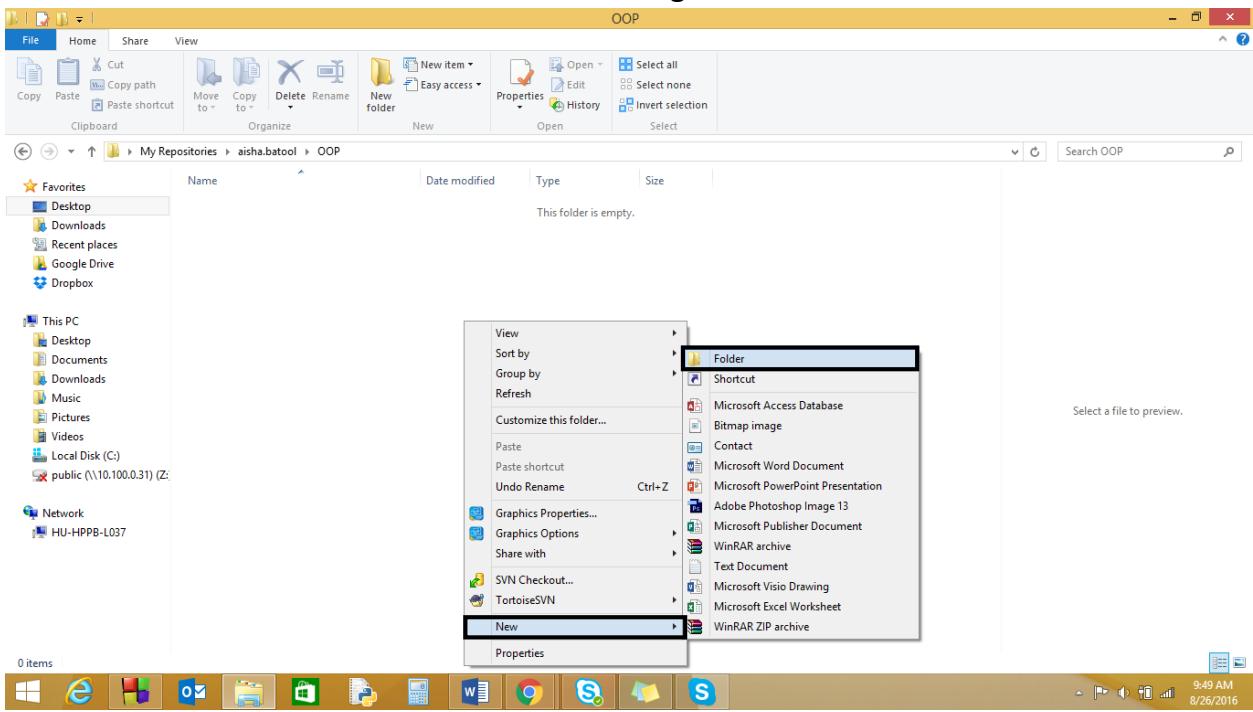
## Step#4 – Checkout The repository

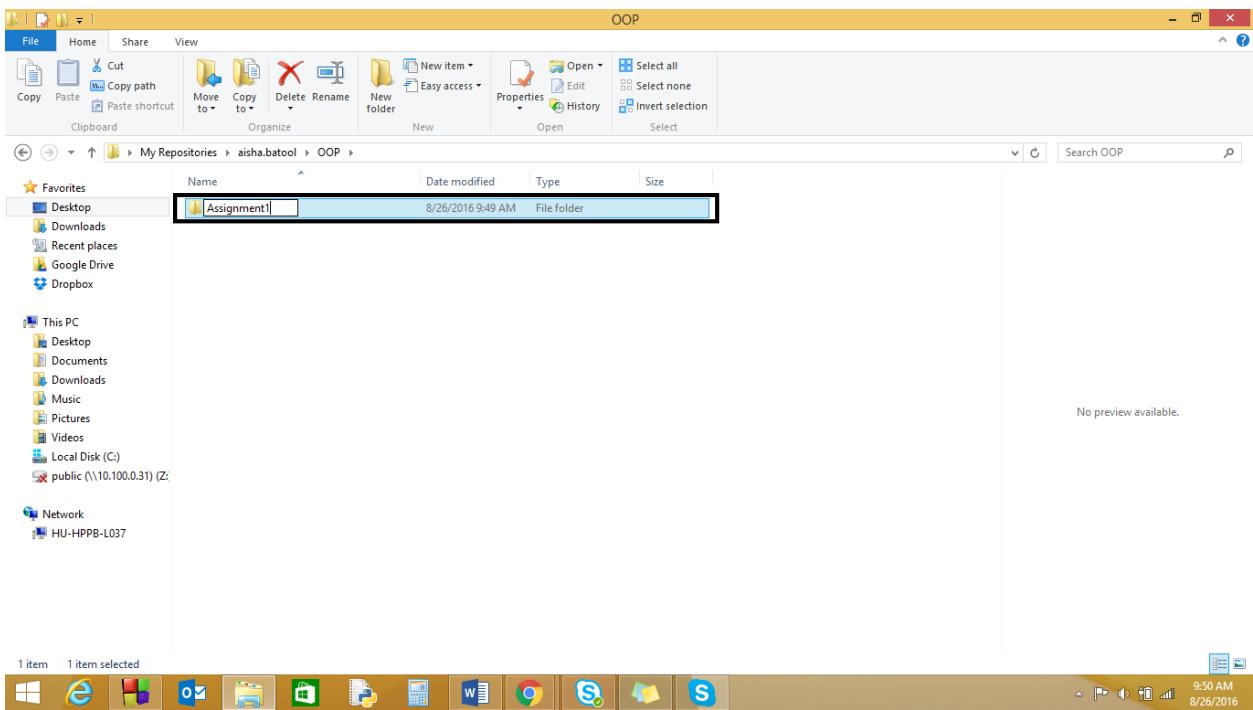
1. Create a new folder **OOP** inside the **Working Folder** your repository was **CheckOut** in Step#3.



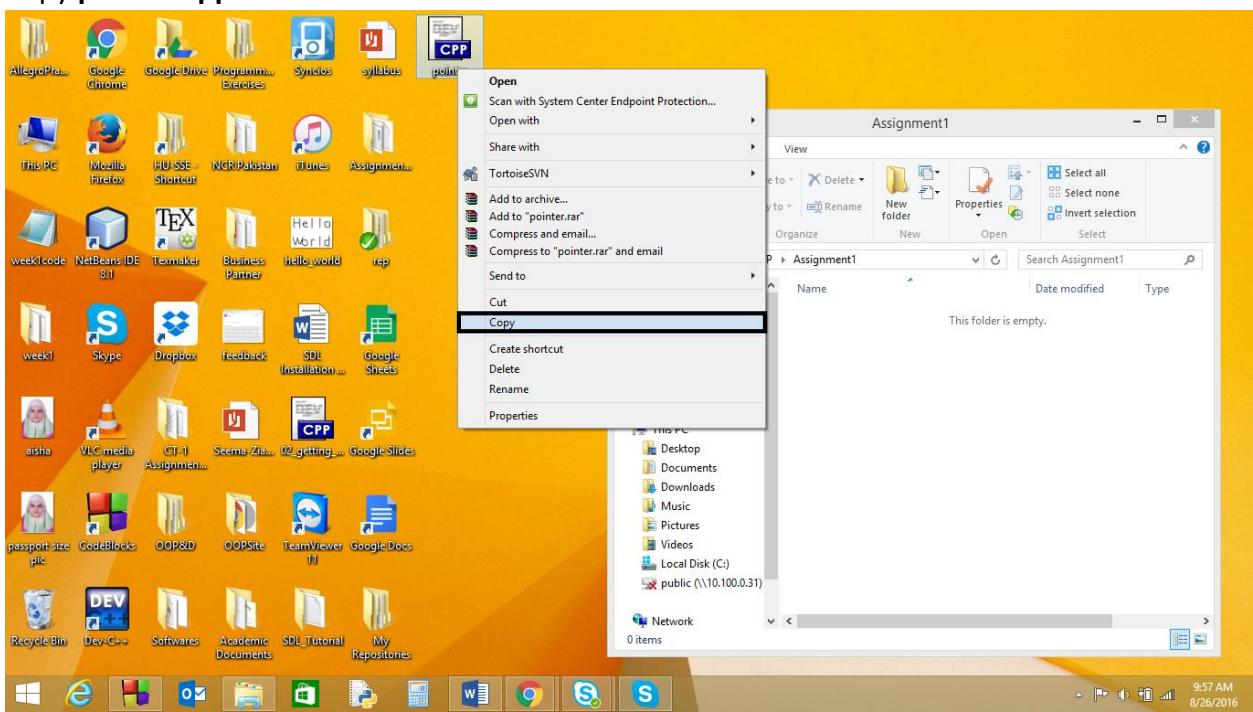


## 2. Go inside the folder OOP. Create a new folder: Assignment1.

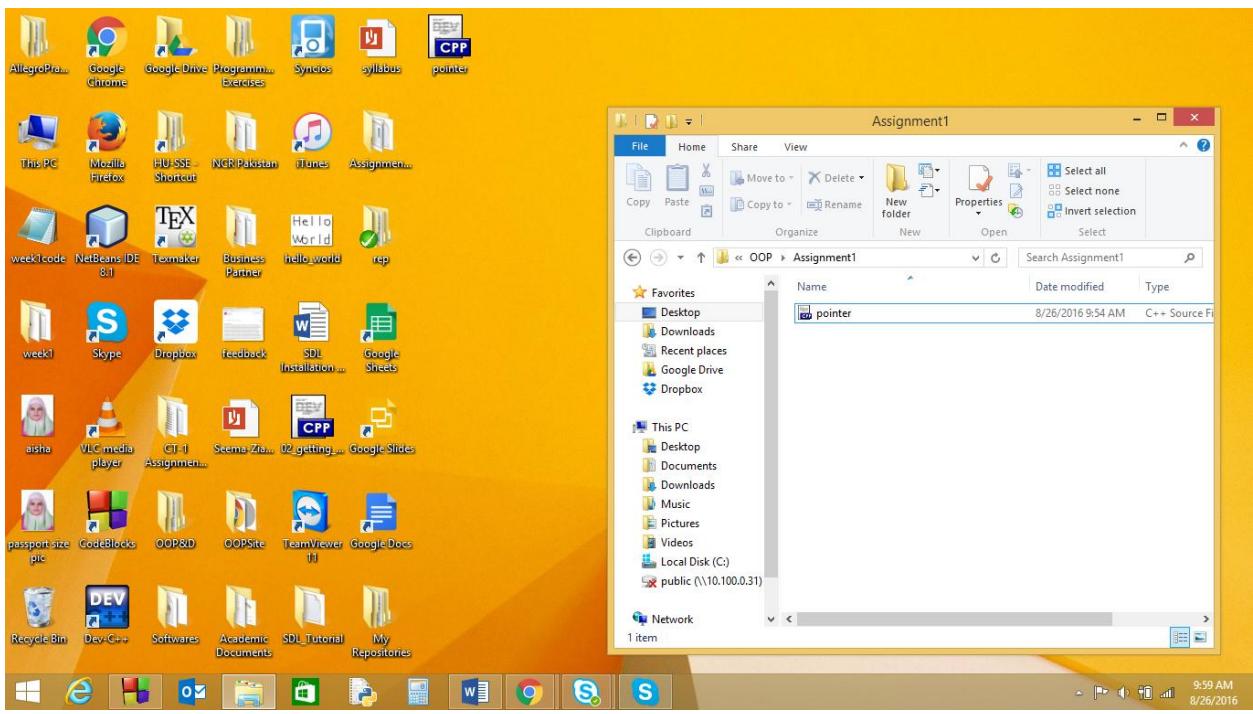
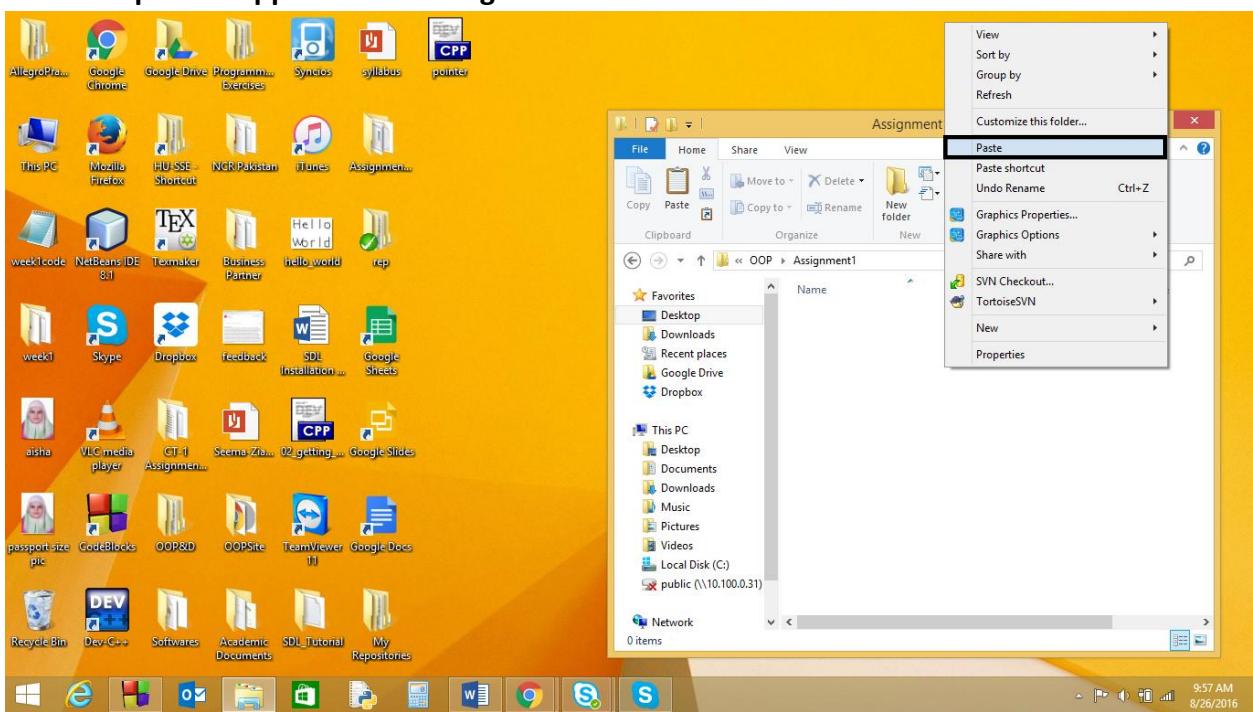




### 3. Copy pointer.cpp file.

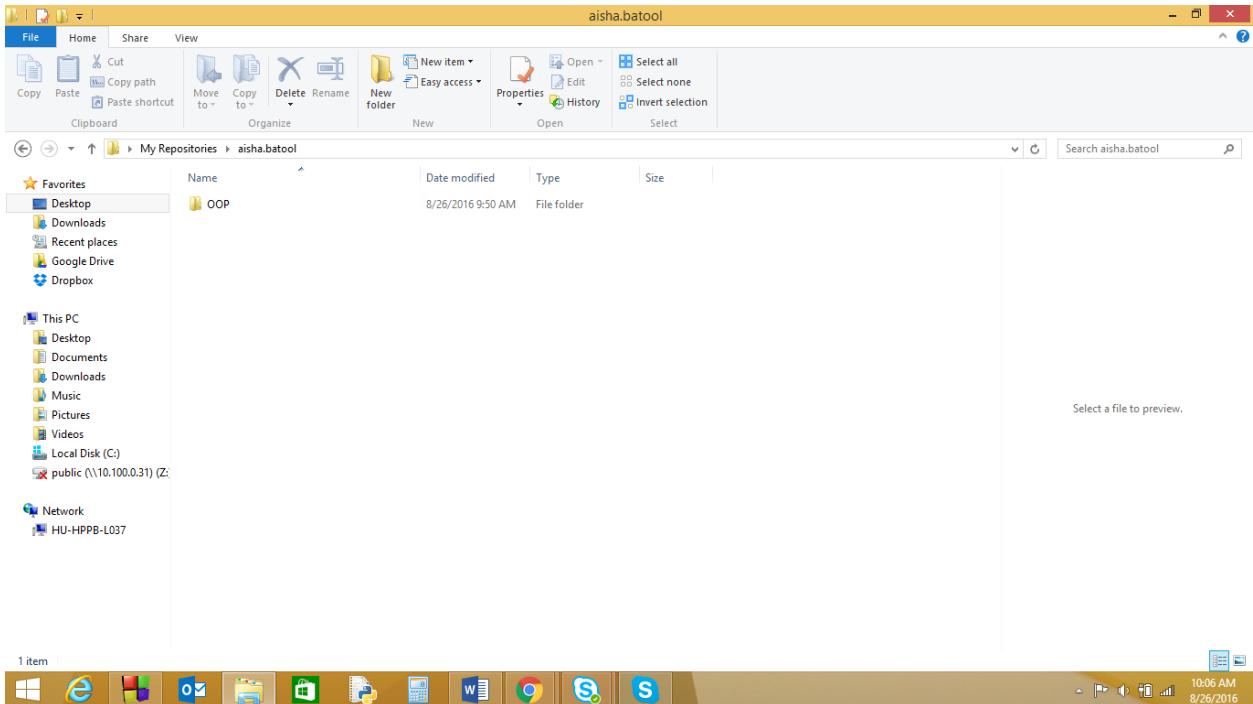


**4. Paste the pointer.cpp file inside Assignment1 folder.**



## Step#5 – Add files/folders to your repository

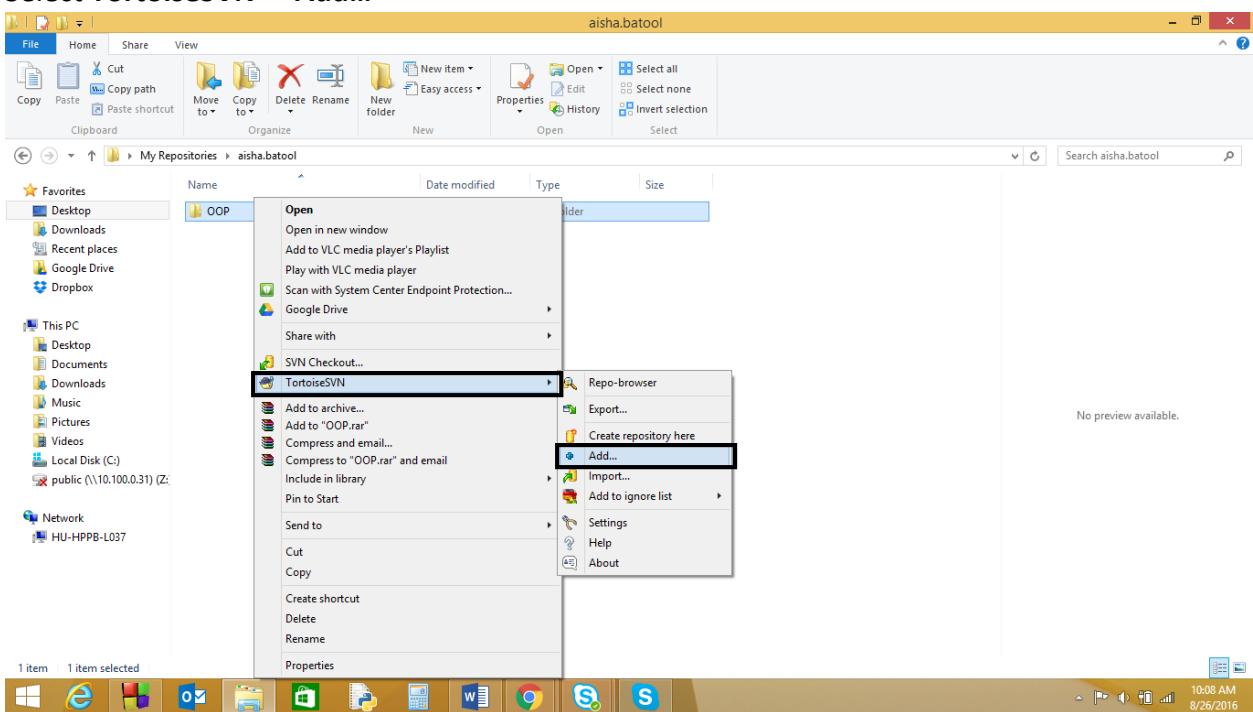
1. Navigate to your **working copy**.



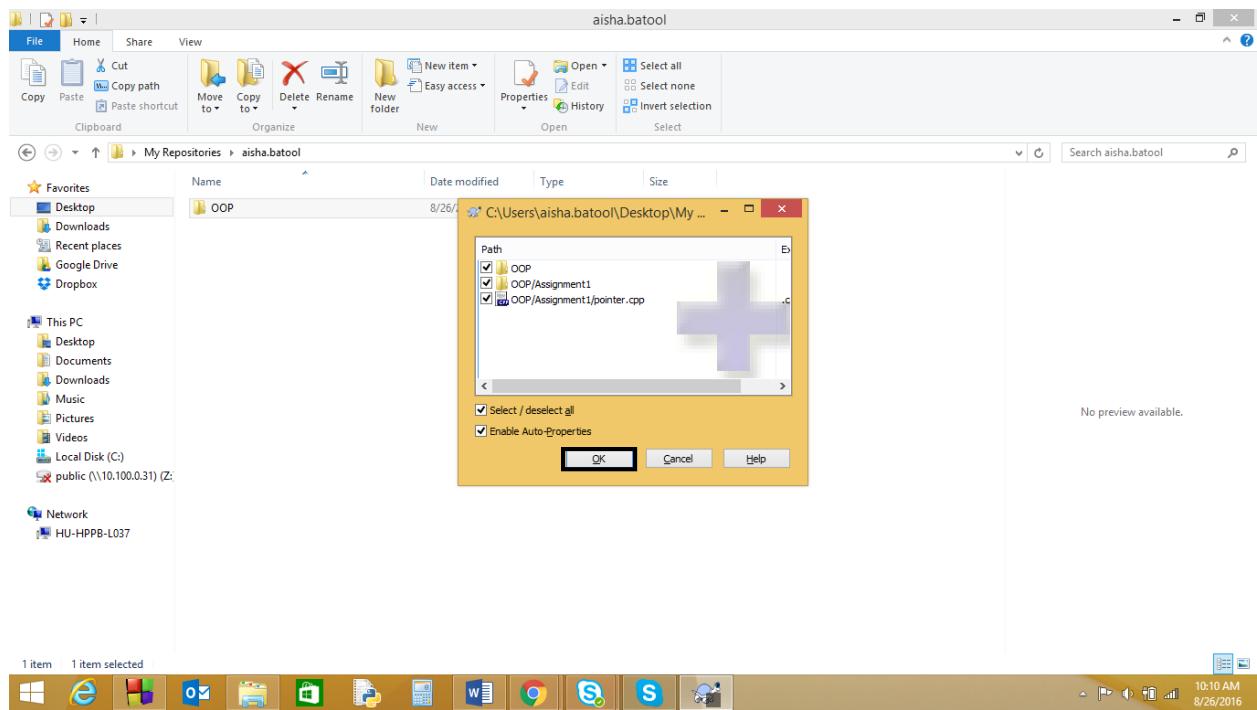
2. Right Click on your created **OOP** folder in Step#4 (1). A context menu will appear.

*(Note: You can select multiple files and folders at a time and add)*

Select **TortoiseSVN** -> **Add...**

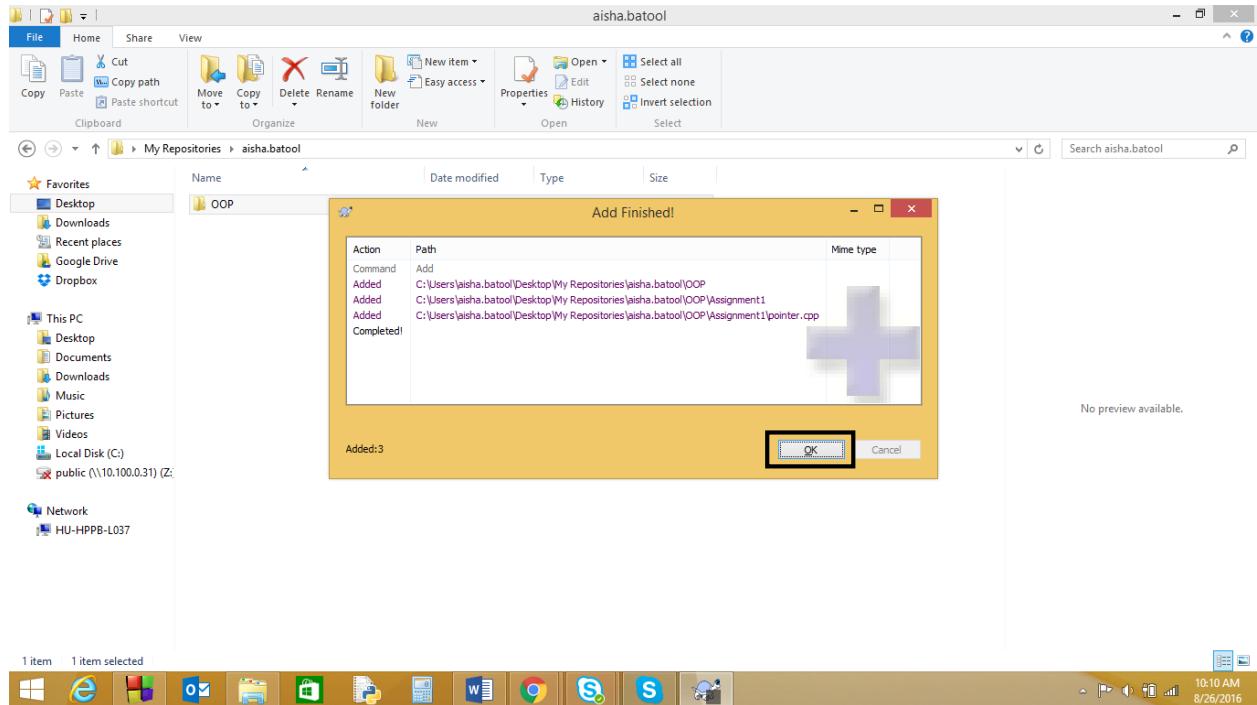


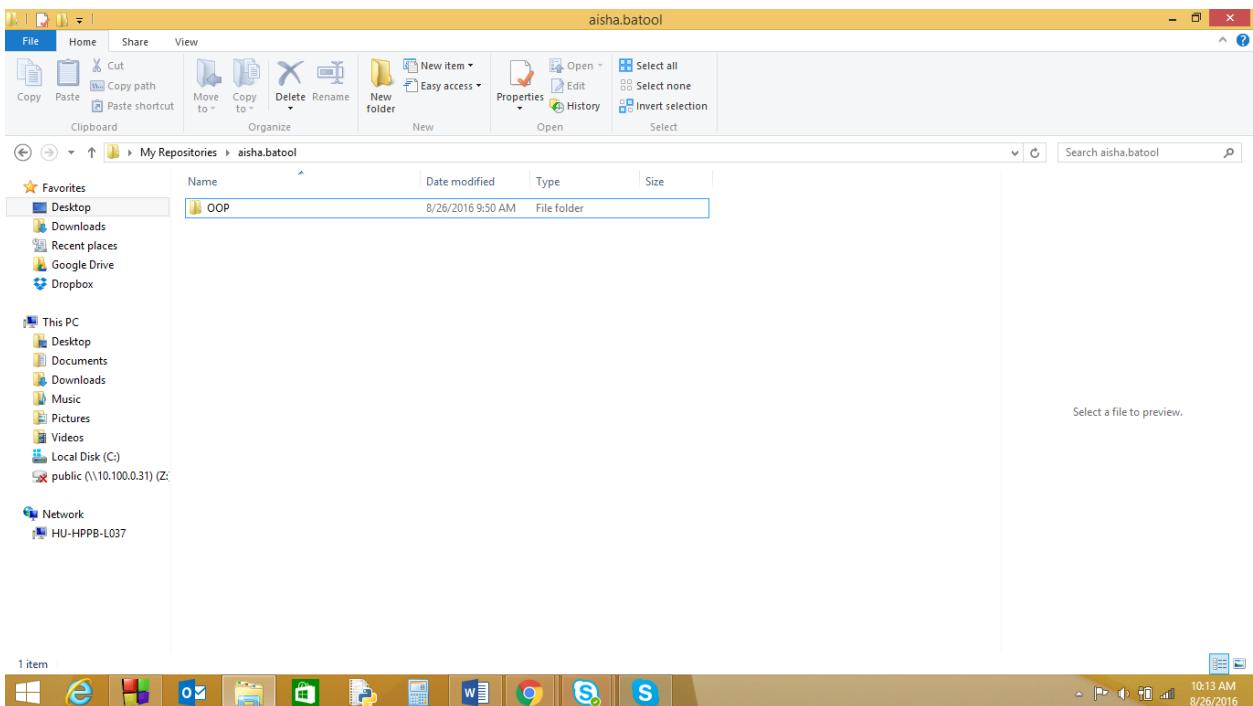
**3. Click on OK.**



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

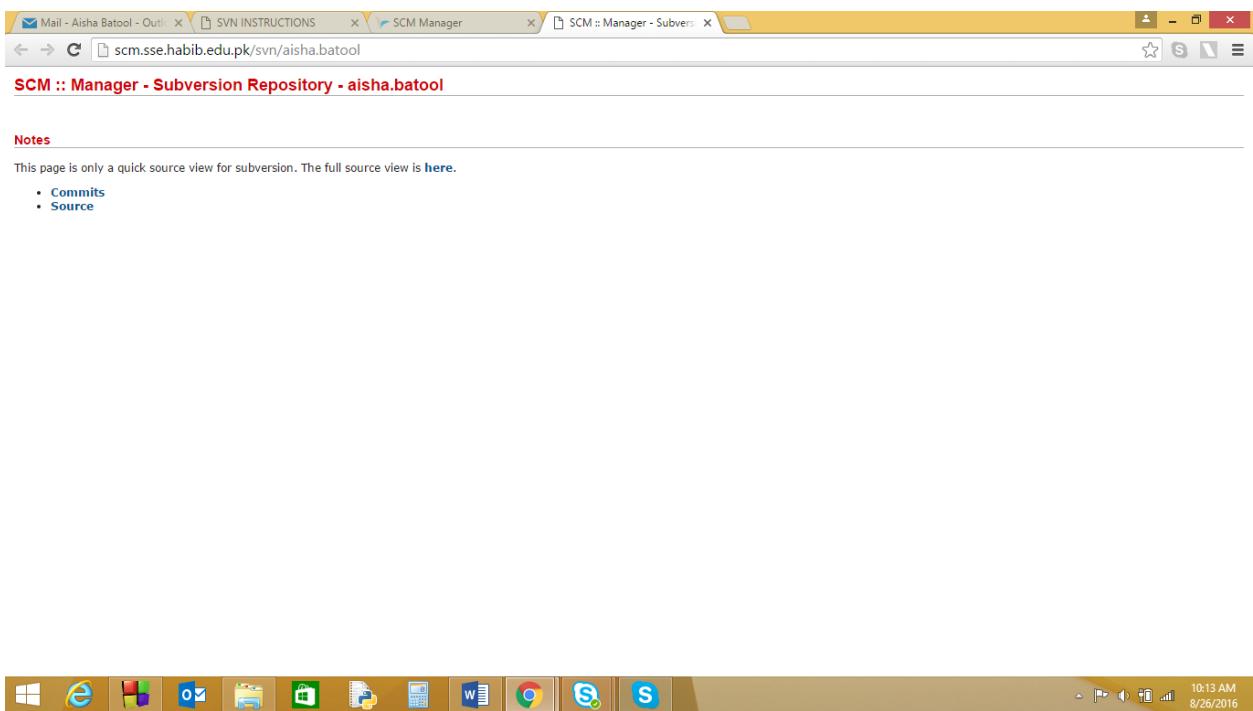
**Click on OK.**





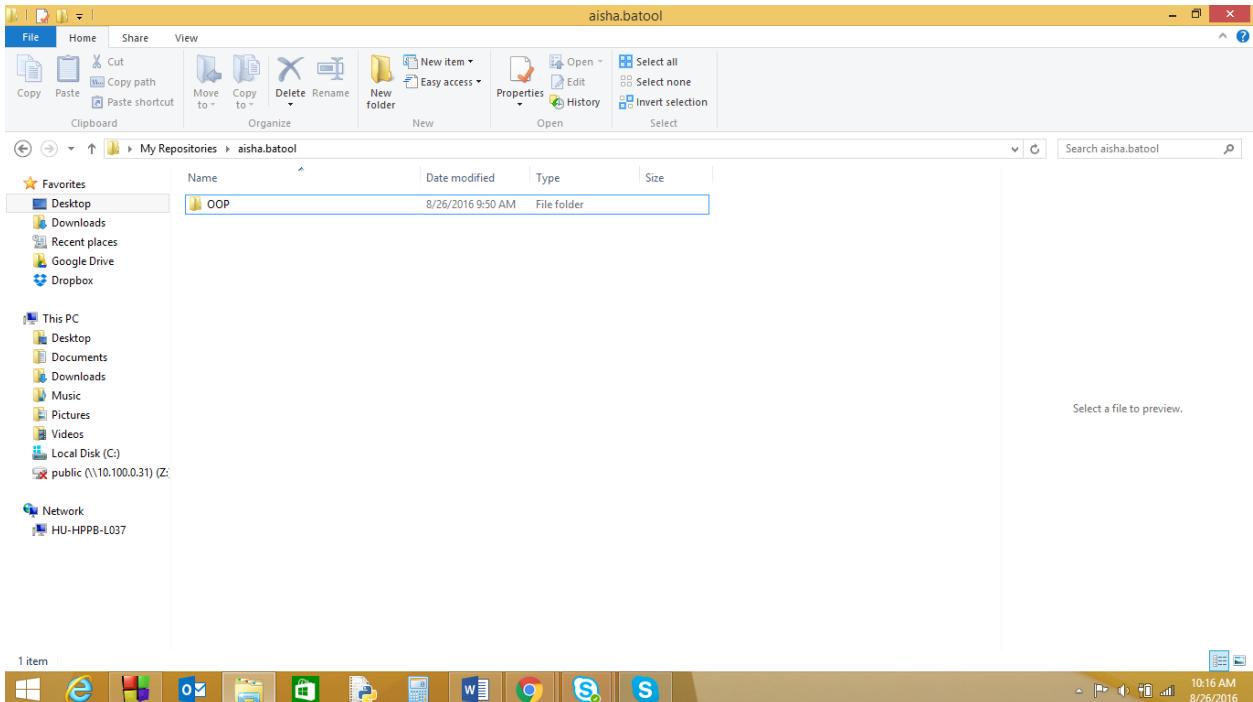
5. Check the **Url** of the **repository**. Repository is still empty and added files are not yet on repository.

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



## Step#6 – Commit the files to your repository

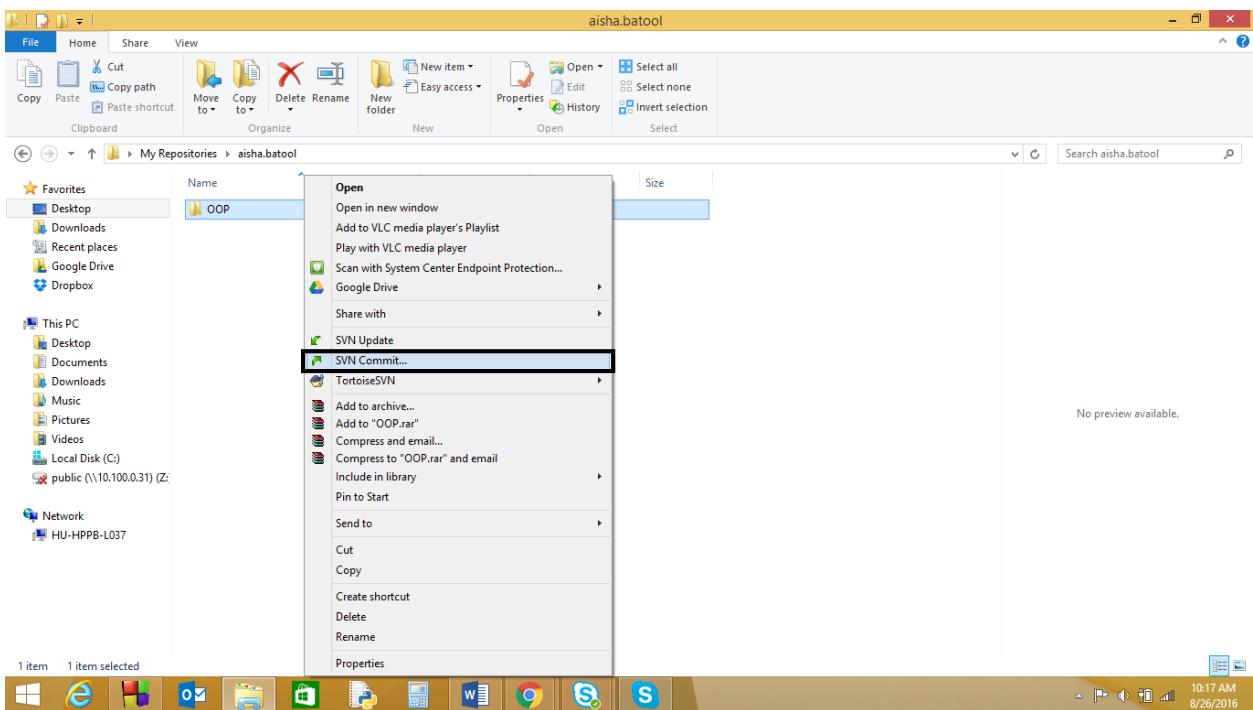
1. Navigate to your **working copy**.



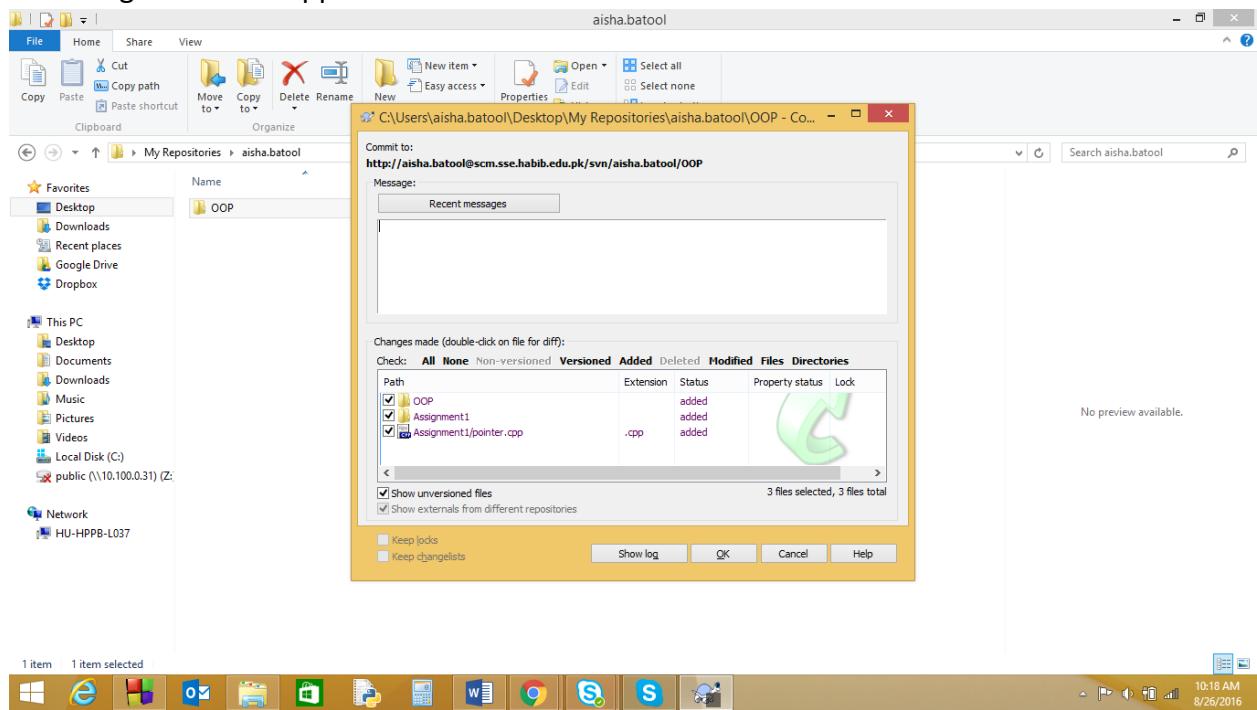
2. Right Click on your created **OOP** folder in Step#4 (1). A context menu will appear.

*(Note: You can select multiple files and folders at a time and commit)*

Select **SVN Commit**.

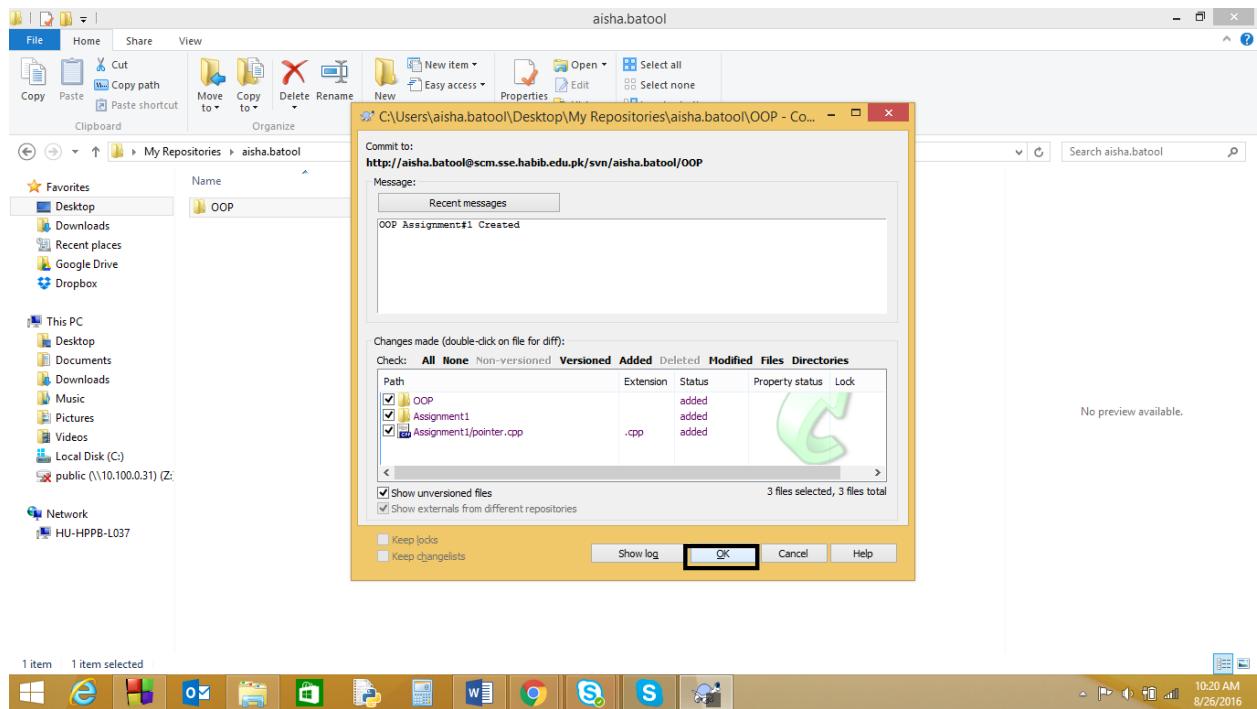


**3. Following screen will appear.**



**4. Write the **commit message** inside the box – OOP Assignment#1 Created.**

**Click on OK.**

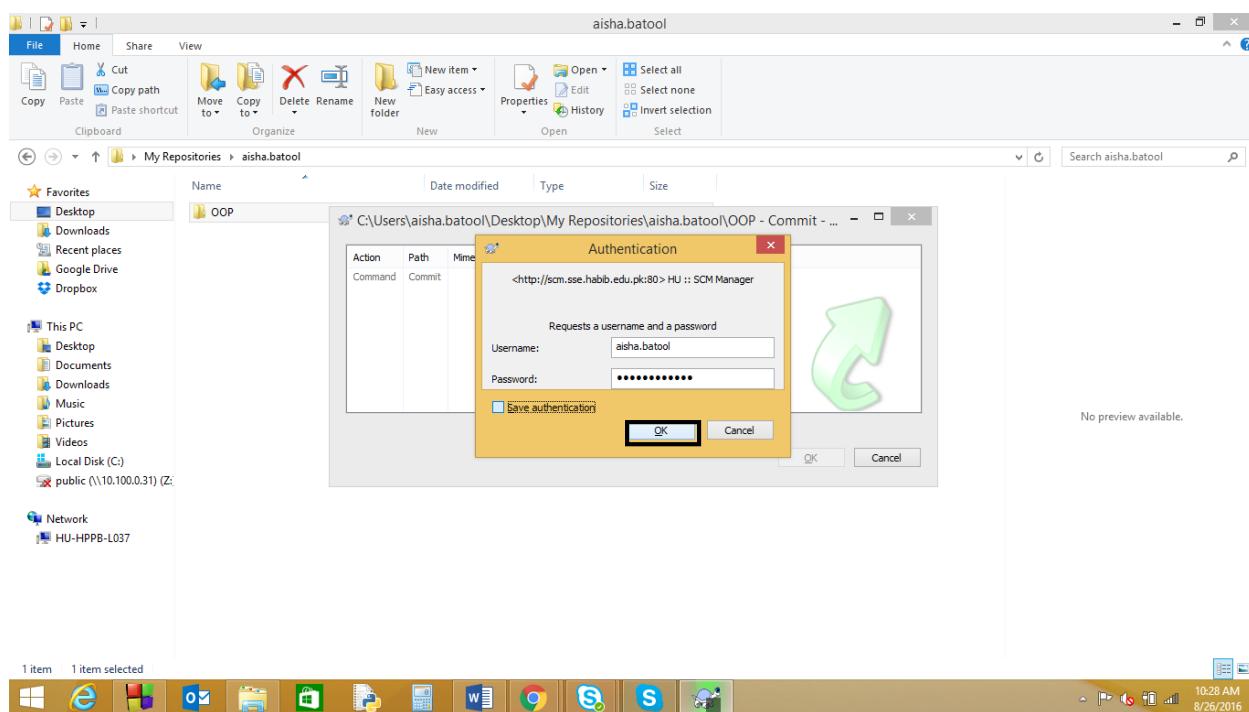
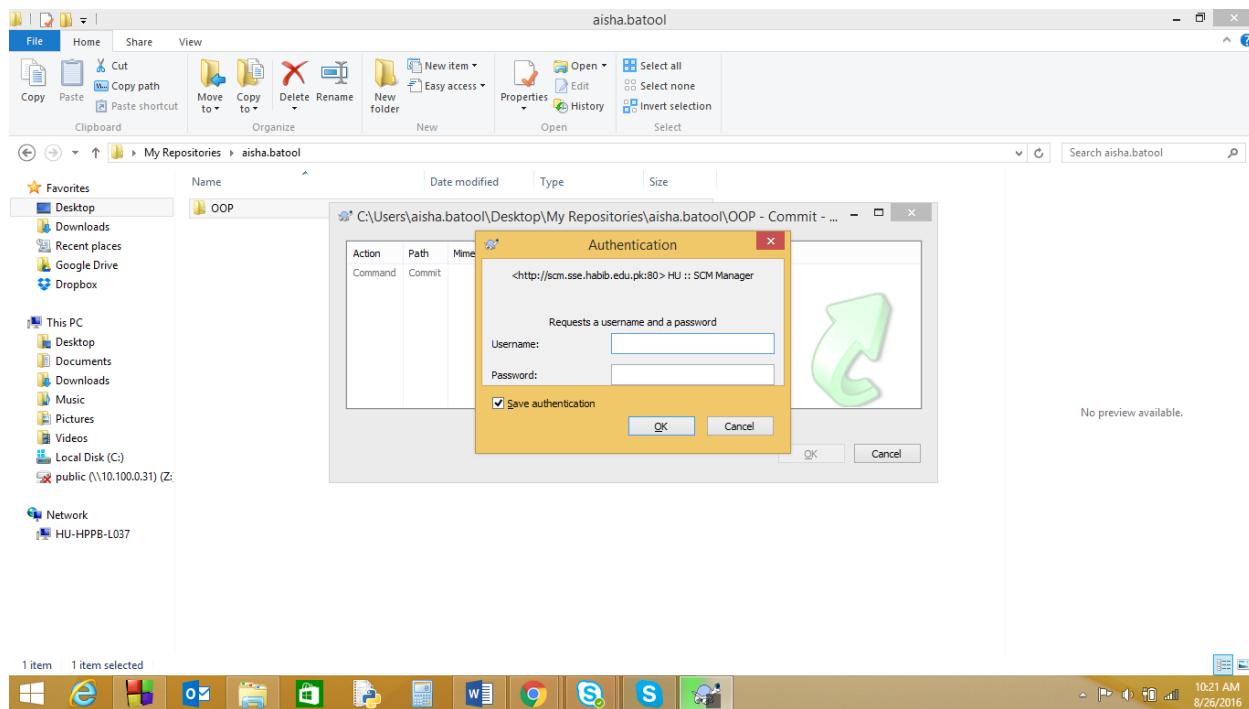


**5. Authentication window will open. Enter your SVN username and password (Your Habib credentials i.e. HU Username & Password).**

If you are using lab PCs, don't forget to uncheck **Save Authentication**.

[Note: This Authentication Window will not appear if you checked Save Authentication in Step#3].

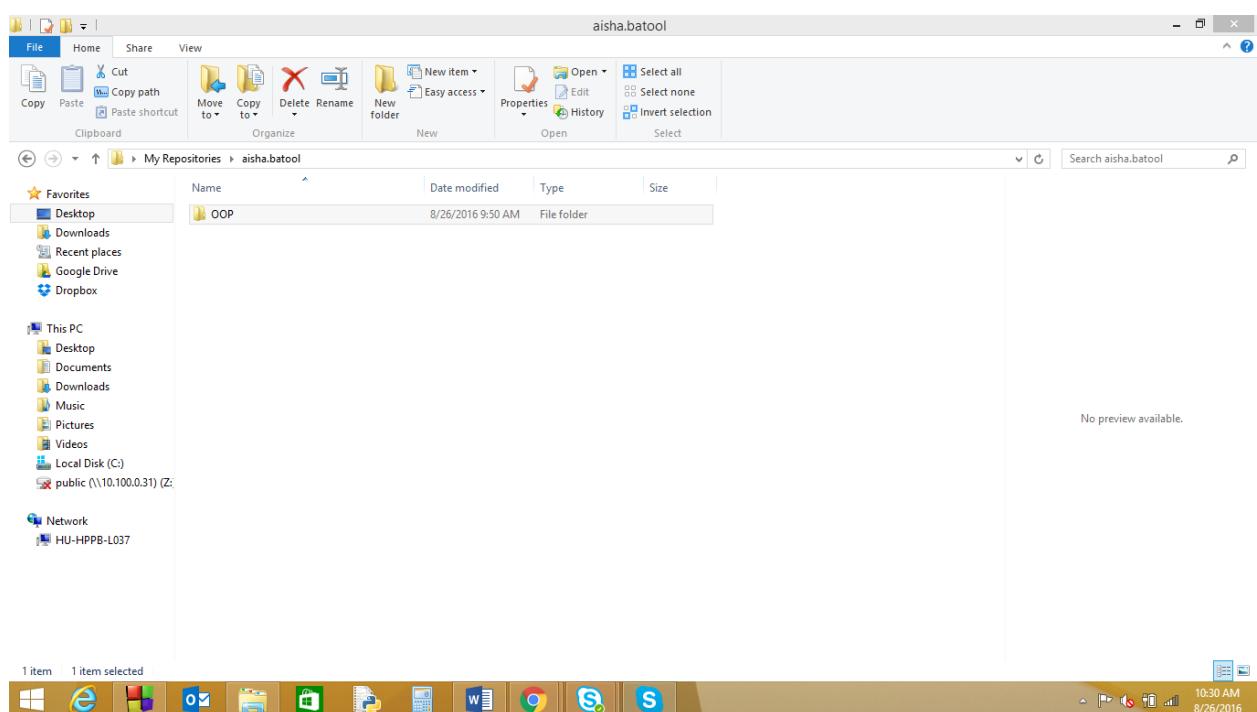
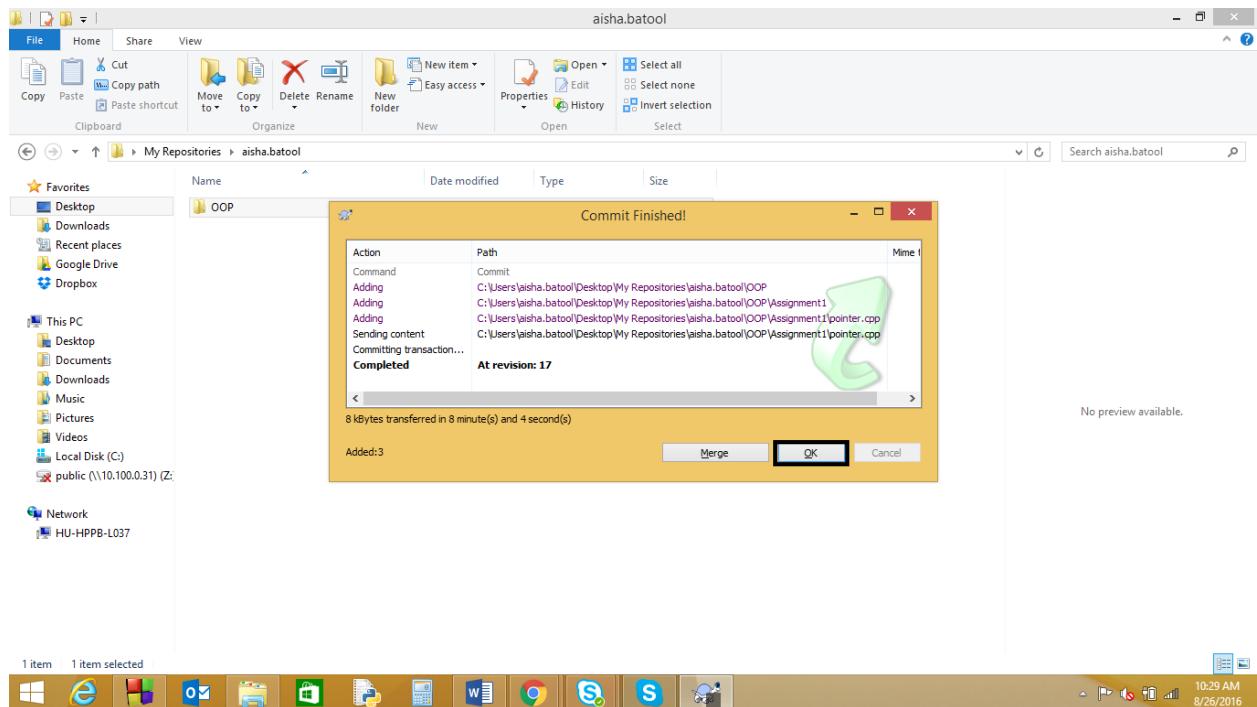
**Click on OK.**



6. You will see the **log** of the files being committed.

You have committed the files successfully.

Click on **OK**.



## Step#7 – Confirm

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

<http://scm.sse.habib.edu.pk>

The screenshot shows the SCM Manager application window. In the center, there is a table titled 'Repositories' with three entries. The third entry, 'aisha.batool', is selected and has a context menu open over it. The menu includes options like 'Open link in new tab', 'Open link in new window', 'Open link in incognito window', 'Save link as...', 'Copy link address', 'Copy', 'Print...', and 'Inspect'. At the bottom of the SCM Manager window, there is a toolbar with various icons and a status bar indicating 'logged in as aisha.batool - 1.42'.

Name	Contact	Description	Creation date	Url
IntroToLinux	fahd.aziz@sse.habib.edu.pk	Introduction To Linux Document	2014-08-26 16:03:26	<a href="http://scm.sse.habib.edu.pk/svn/Document/IntroToLinux">http://scm.sse.habib.edu.pk/svn/Document/IntroToLinux</a>
CS224-Fall16	qasim.pasta@sse.habib.edu.pk	Course material for the Fall 2016 offering of CS224 Object Oriented Programming	2016-08-15 14:05:49	<a href="http://scm.sse.habib.edu.pk/svn/CS224-Fall16">http://scm.sse.habib.edu.pk/svn/CS224-Fall16</a>
CORE111-Fall16	waqar.saleem@sse.habib.edu.pk	Course material for the Fall 16 offering of CORE111 Logical Problem Solving	2016-08-16 10:31:40	<a href="http://scm.sse.habib.edu.pk/svn/CORE111-Fall16">http://scm.sse.habib.edu.pk/svn/CORE111-Fall16</a>
aisha.batool	aisha.batool@sse.habib.edu.pk		2016-08-19 12:41:03	<a href="http://scm.sse.habib.edu.pk/svn/aisha.batool">http://scm.sse.habib.edu.pk/svn/aisha.batool</a>

2. The files have been transmitted successfully on **SVN**.

The screenshot shows the 'SCM :: Manager - Subversion Repository - aisha.batool' page. It displays a single folder named 'OOP/'. Below the folder name, there is a 'Notes' section which contains the text: 'This page is only a quick source view for subversion. The full source view is [here](#)'. There are also links for 'Commits' and 'Source'. At the bottom of the page, there is a toolbar with various icons and a status bar indicating '10:38 AM 8/26/2016'.

SCM :: Manager - Subversion Repository - aisha.batool

../  
[Assignment1/](#)

**Notes**

This page is only a quick source view for subversion. The full source view is [here](#).

- [Commits](#)
- [Source](#)



SCM :: Manager - Subversion Repository - aisha.batool

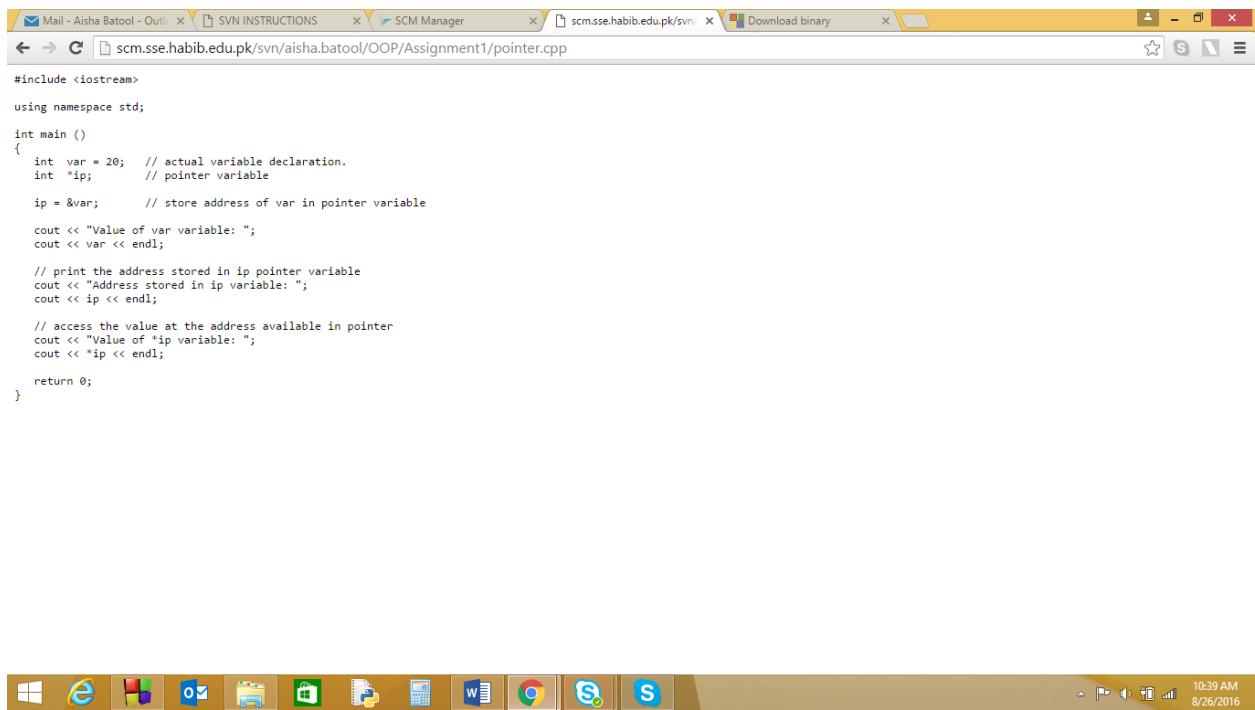
../  
[pointer.cpp](#)

**Notes**

This page is only a quick source view for subversion. The full source view is [here](#).

- [Commits](#)
- [Source](#)





The screenshot shows a Windows desktop environment with several browser tabs open in the background. The tabs include 'Mail - Aisha Batool - Outlook', 'SVN INSTRUCTIONS', 'SCM Manager', 'scm.sse.habib.edu.pk/svn/aisha.batool/OOP/Assignment1/pointer.cpp', and 'Download binary'. In the foreground, a code editor window is displayed, showing a C++ program. The code demonstrates pointer usage by declaring an integer variable 'var' and a pointer 'ip' to it, then printing both the value and address of 'var'.

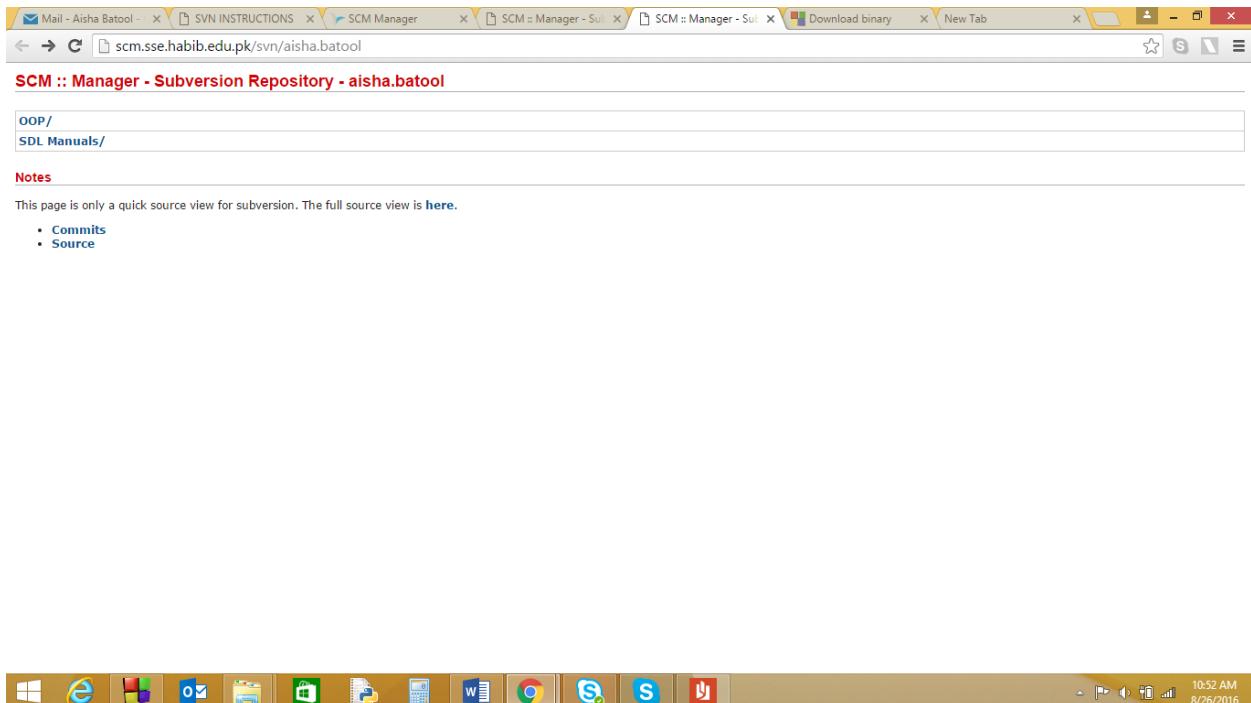
```
#include <iostream>
using namespace std;
int main ()
{
    int var = 20; // actual variable declaration.
    int *ip; // pointer variable
    ip = &var; // store address of var in pointer variable
    cout << "Value of var variable: ";
    cout << var << endl;
    // print the address stored in ip pointer variable
    cout << "Address stored in ip variable: ";
    cout << ip << endl;
    // access the value at the address available in pointer
    cout << "Value of *ip variable: ";
    cout << *ip << endl;
    return 0;
}
```

## SVN Update

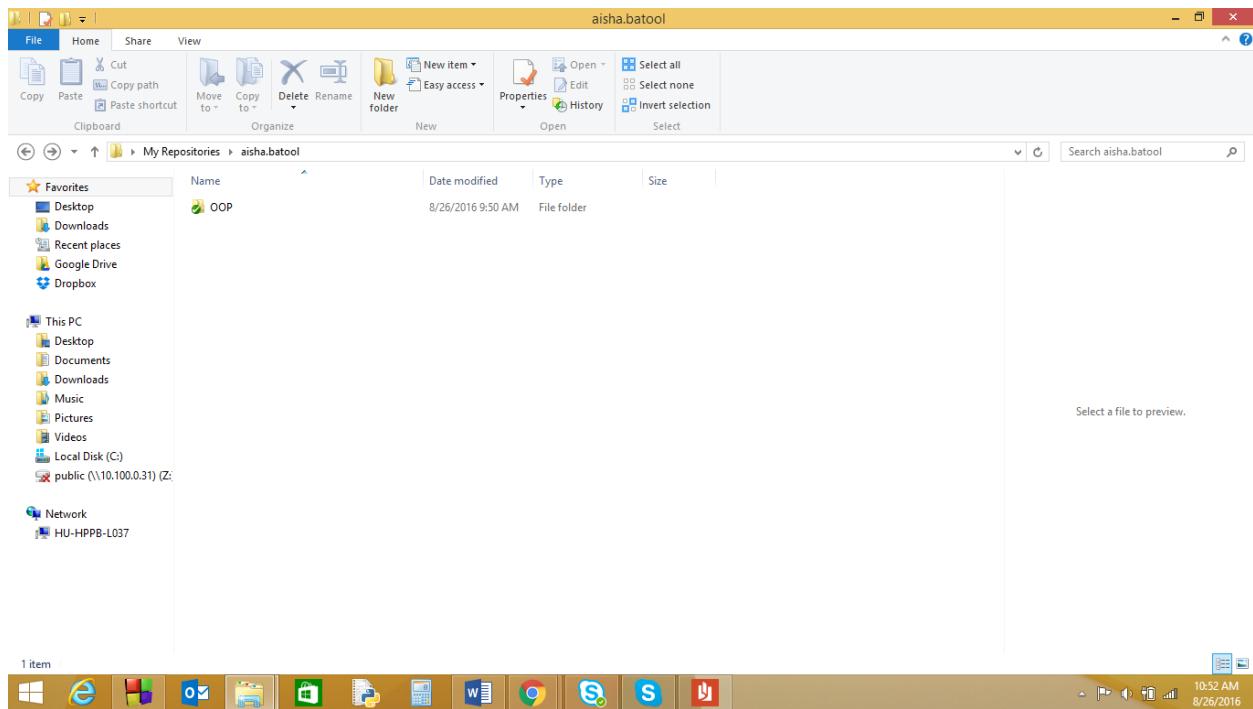
SVN Update command brings changes from the repository into your working copy. If no revision is specified, it brings your working copy up-to-date with the HEAD revision. Otherwise, it synchronizes the working copy to the revision given in the argument.

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>>

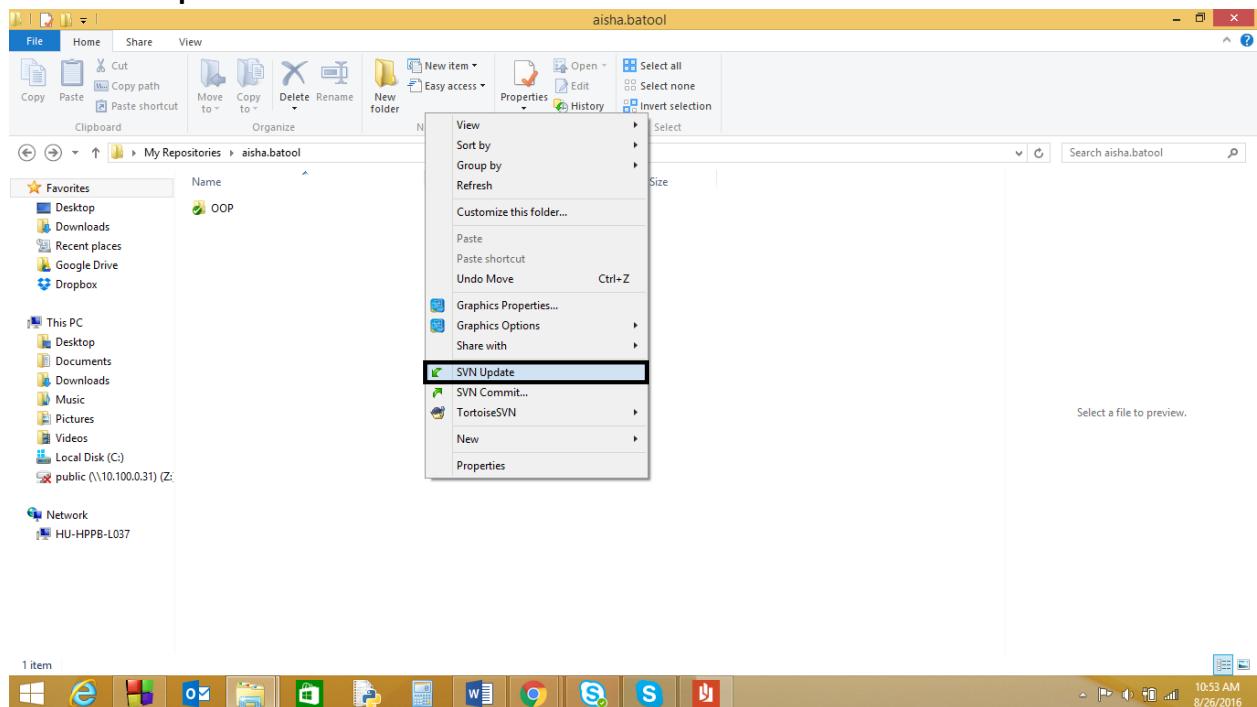


## Working Copy>>



1. Right Click on your working copy screen. A context menu will appear.

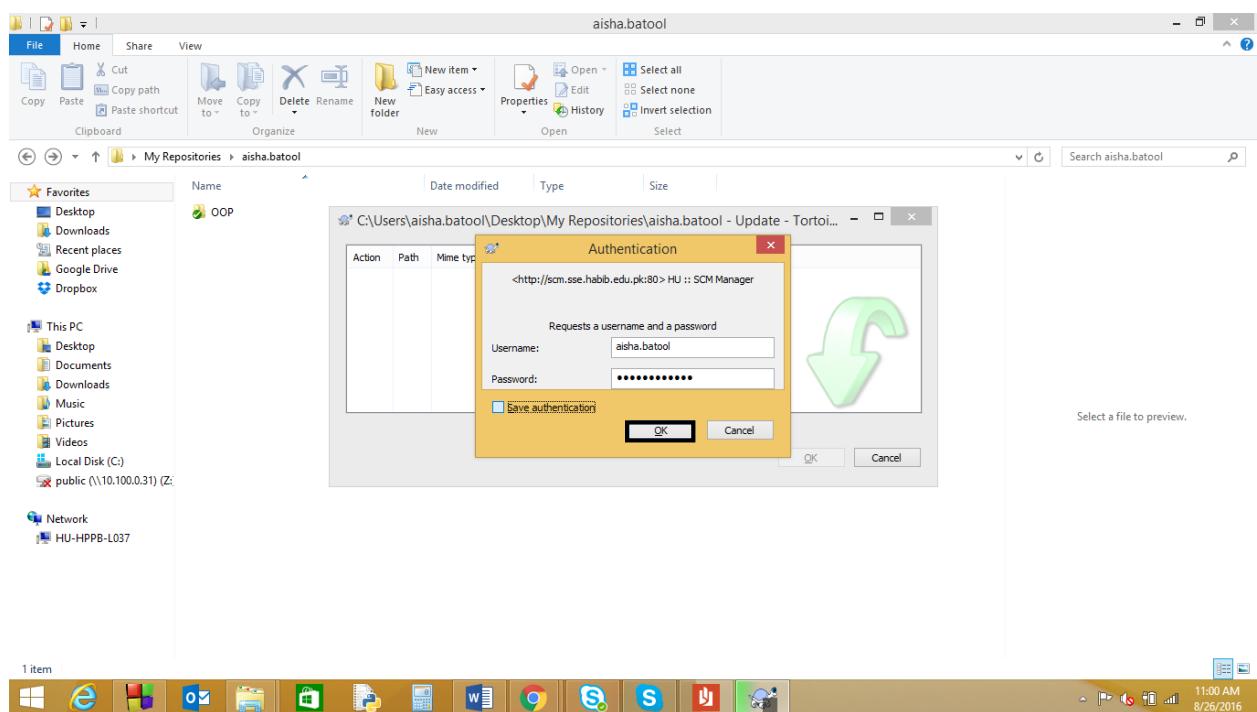
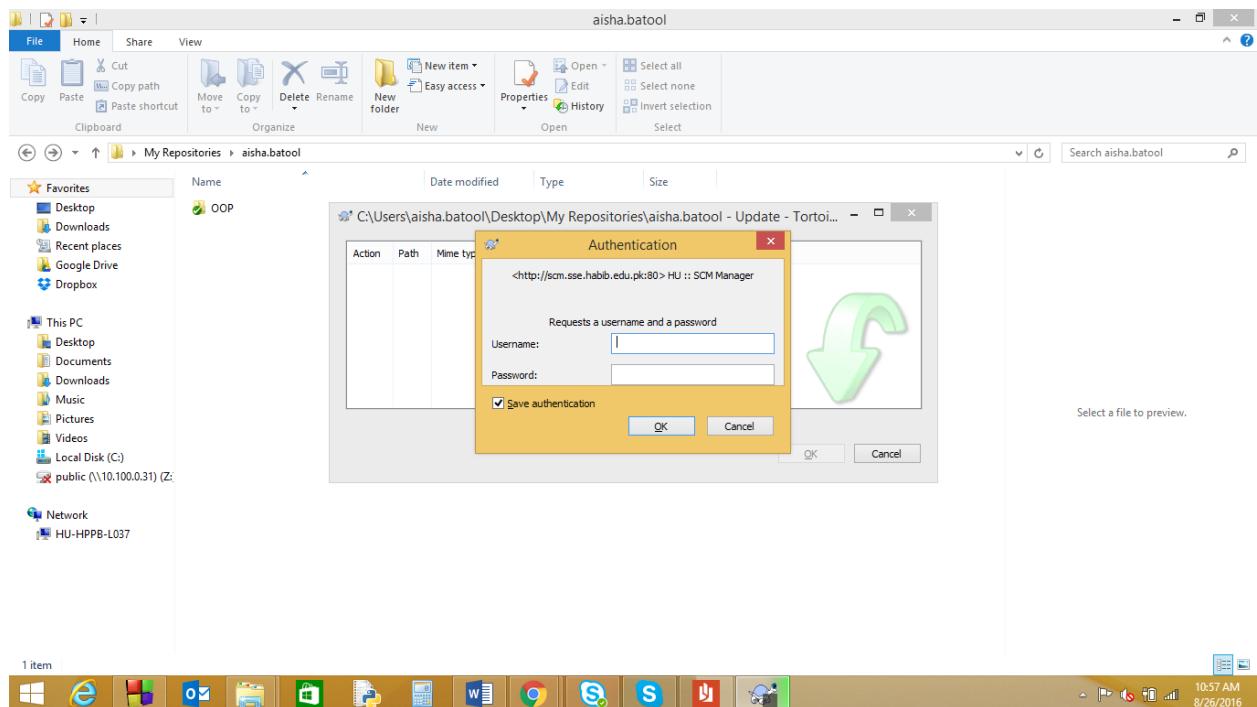
Select SVN Update.



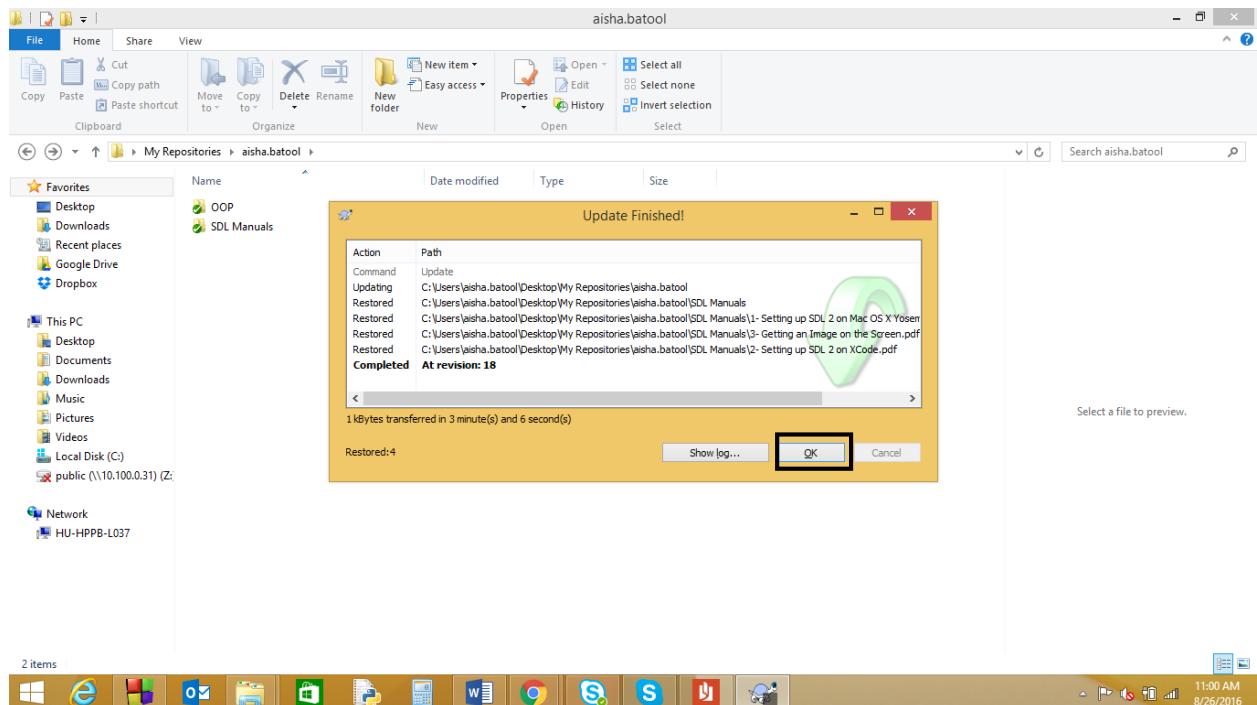
**2. Authentication window will open. Enter your SVN username and password (Your Habib credentials i.e. HU Username & Password).**

If you are using lab PCs, don't forget to uncheck **Save Authentication**.

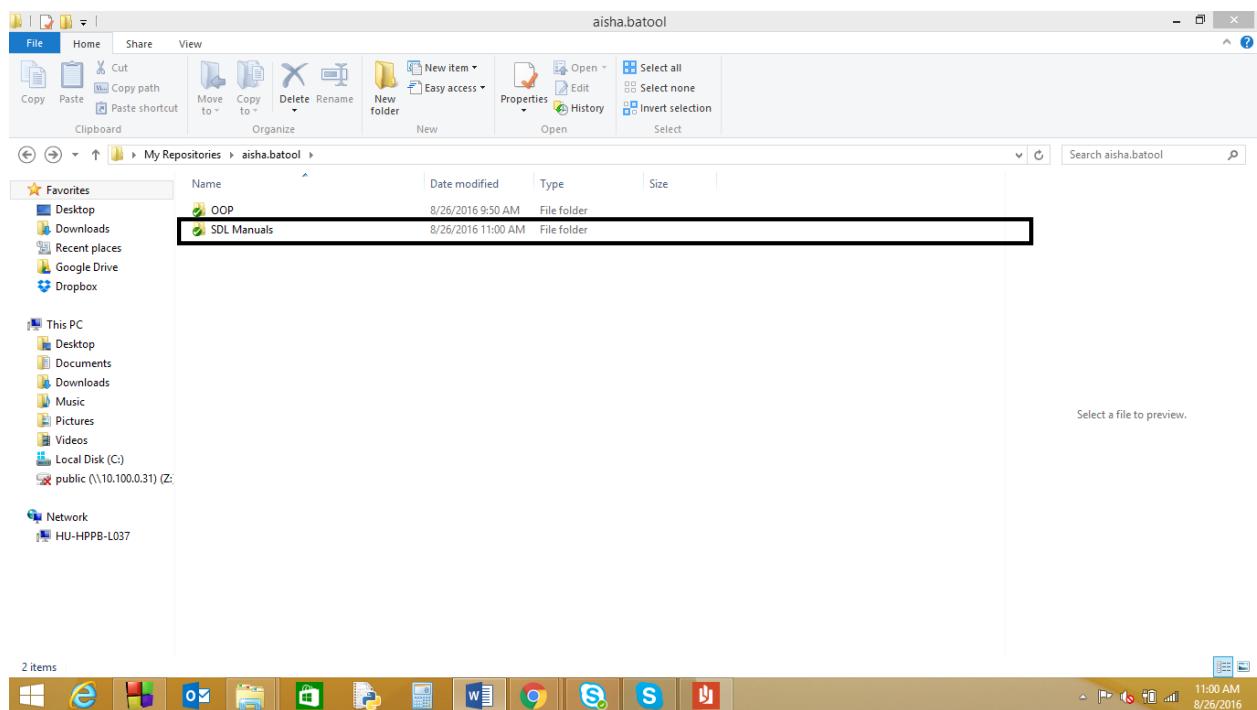
[Note: This Authentication Window will not appear if you checked Save Authentication in Step#3 OR Step#6].

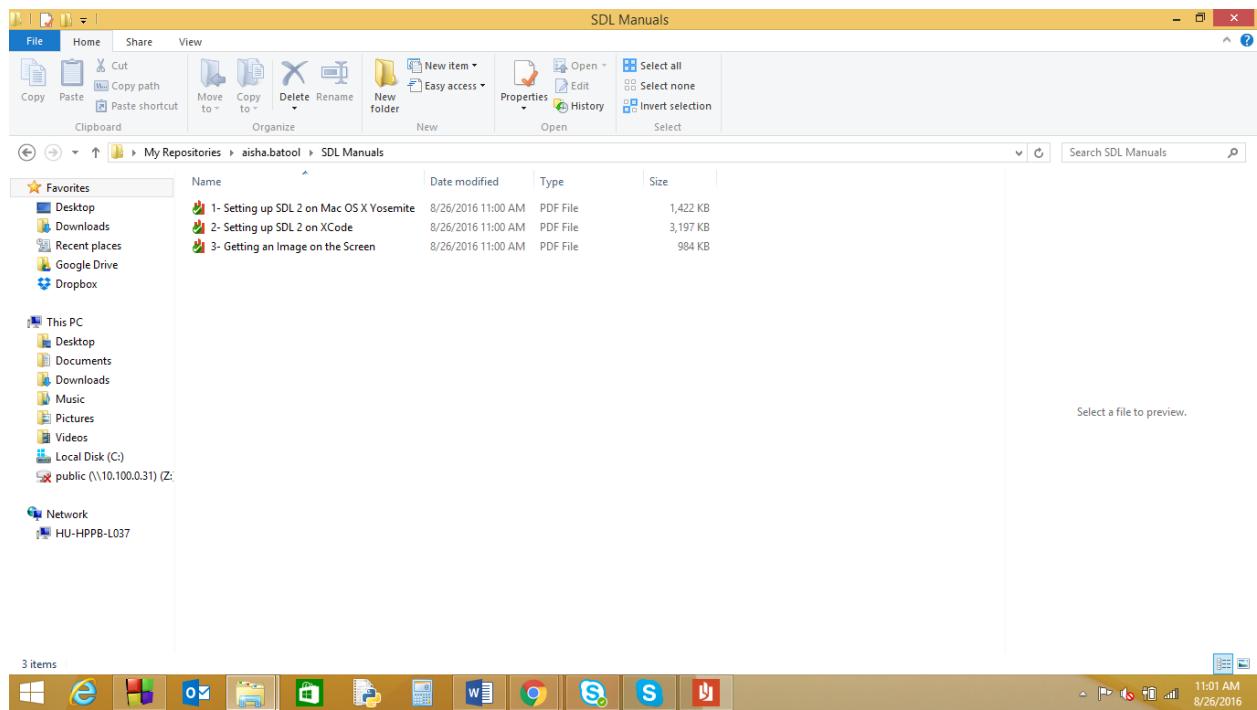


- 3.** You will see the **log** of files being updated.  
Your **working copy** have been updated successfully.



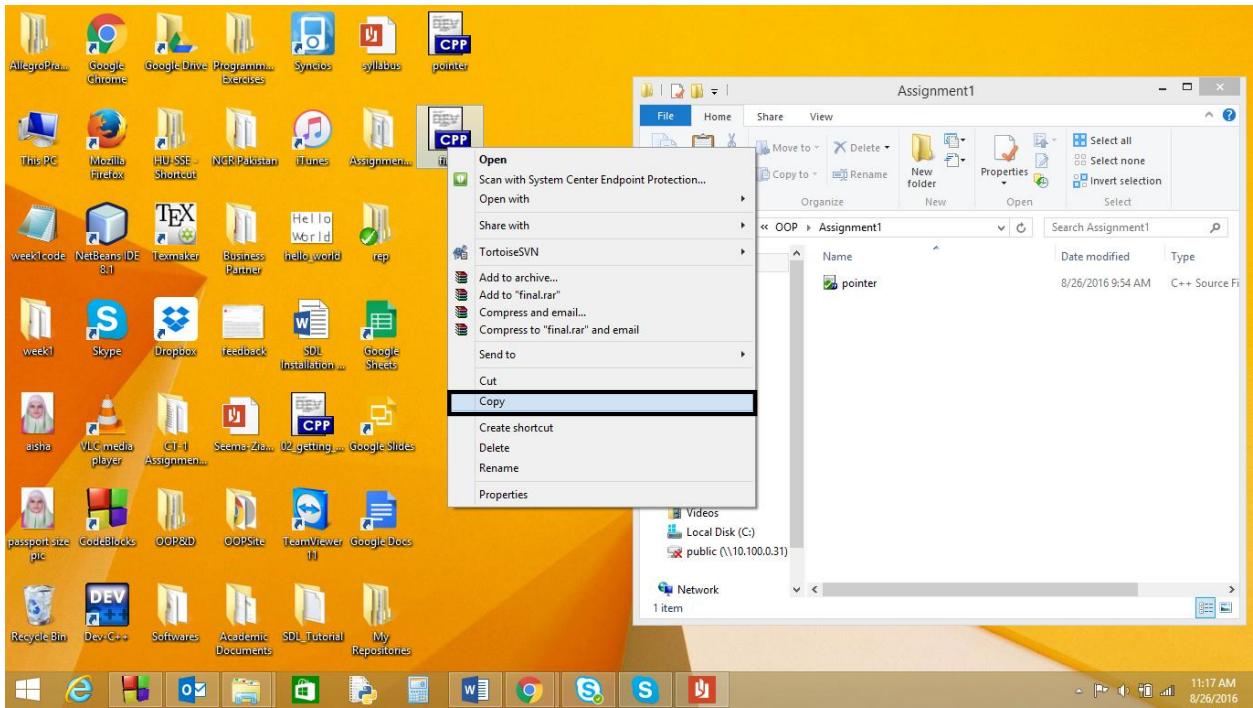
- 4.** Go to your **working copy** to confirm.



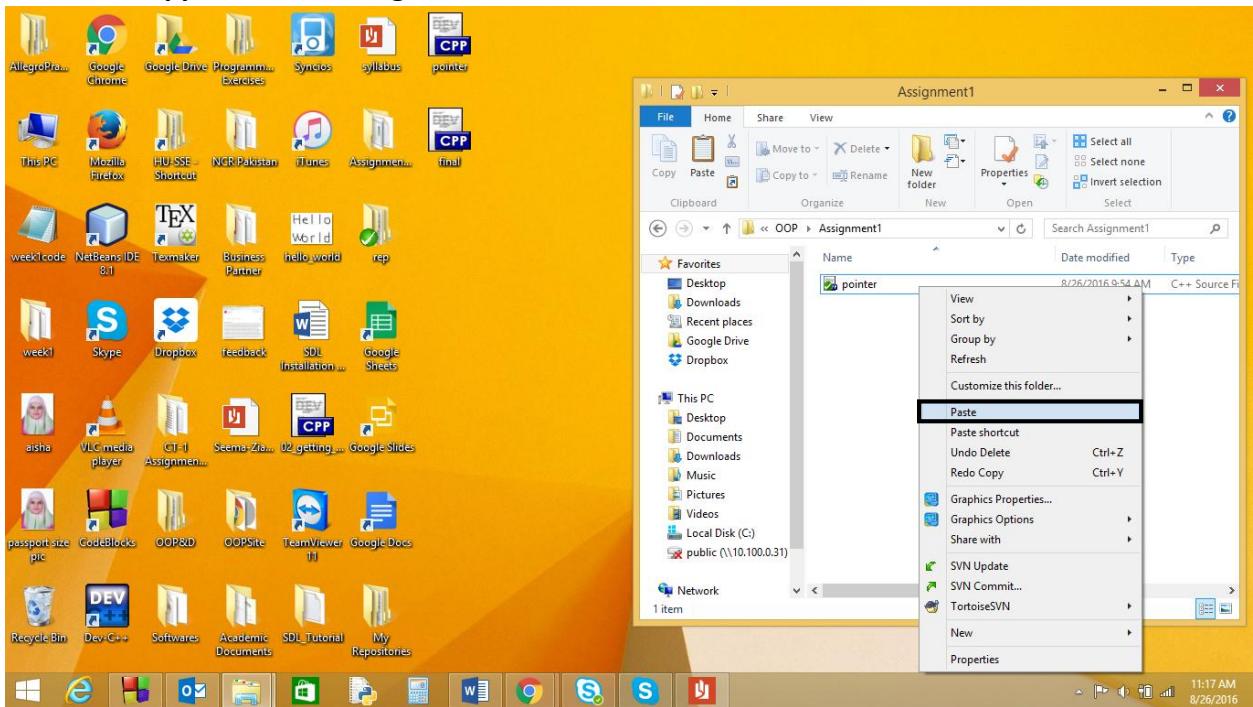


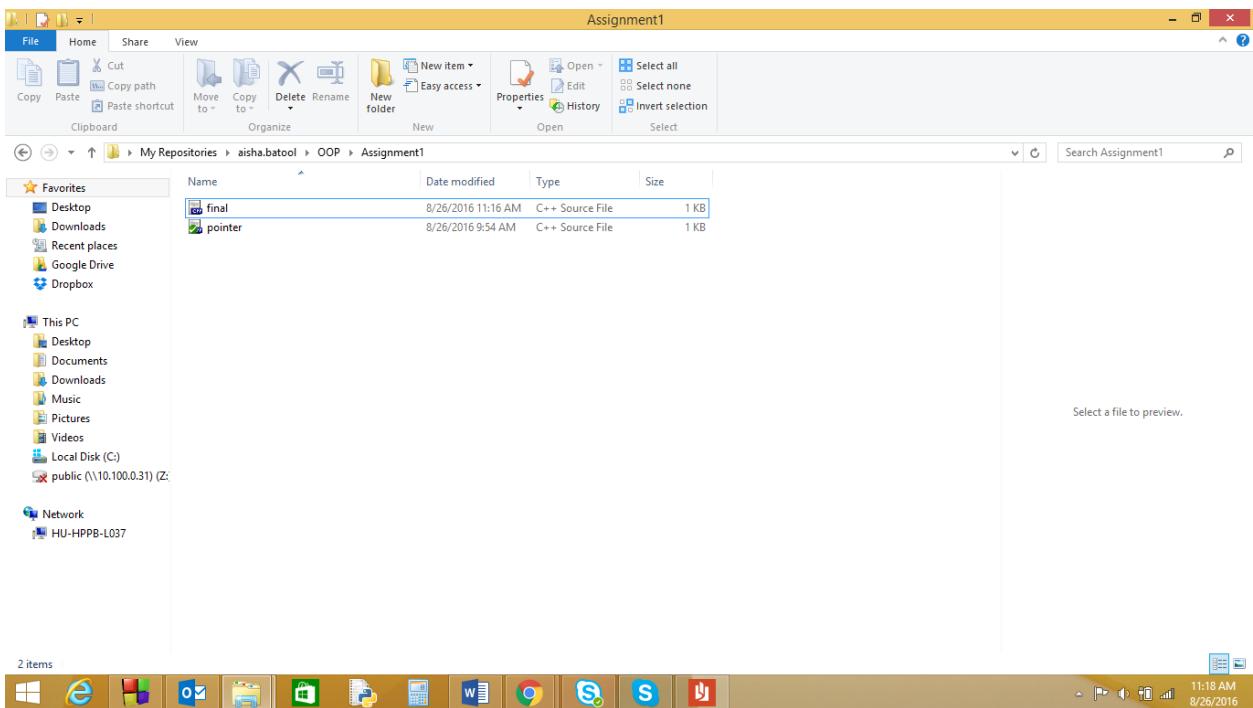
# Adding Files to Non-Empty Repository

## 1. Copy final.cpp file.

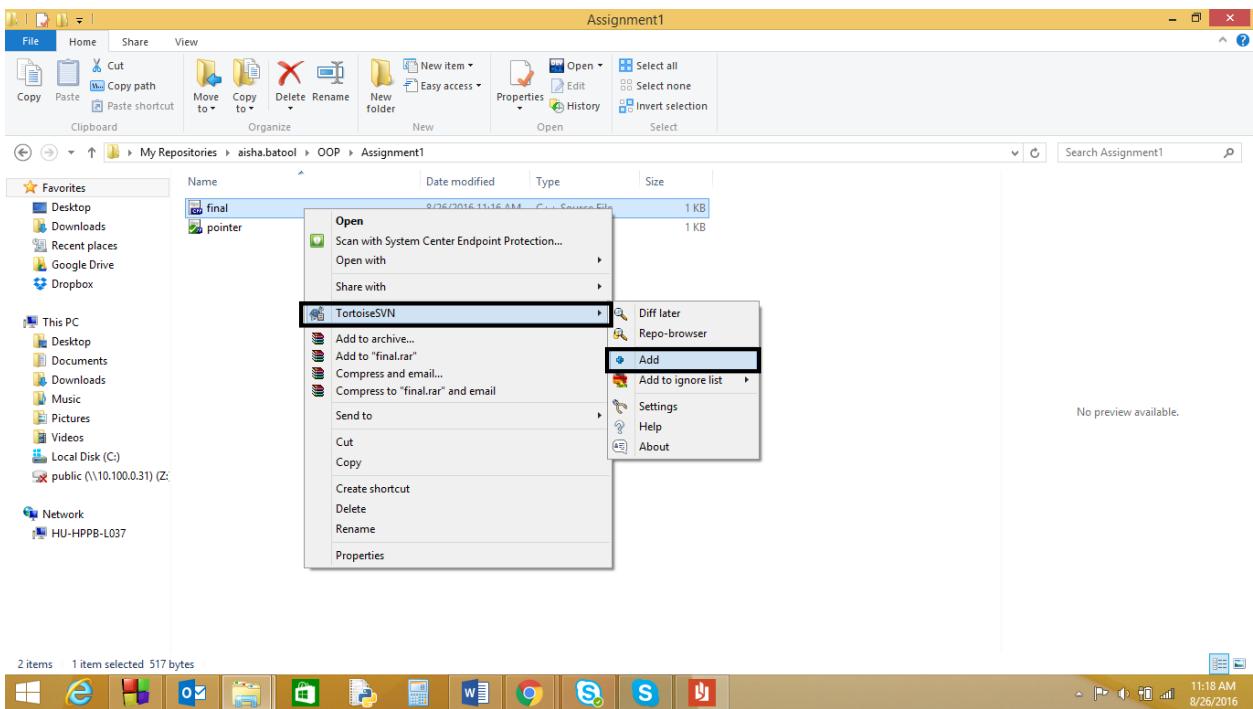


## 2. Paste final.cpp file inside Assignment1.

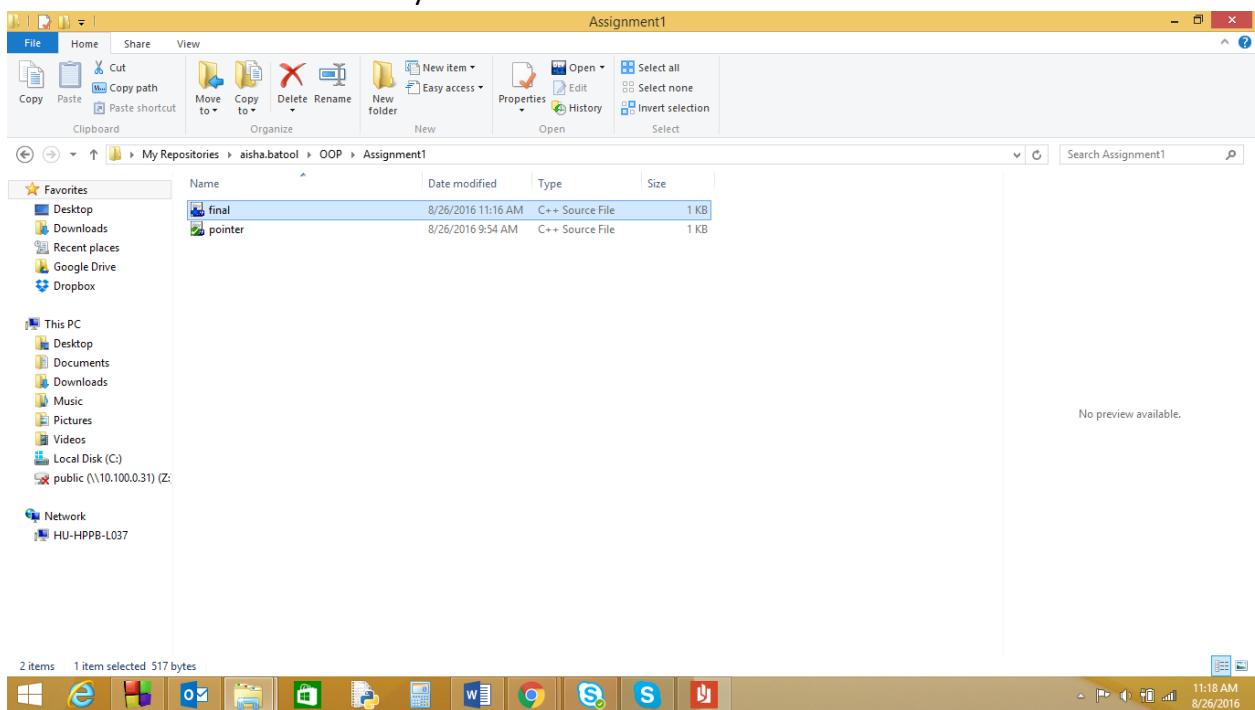




3. Right Click on **final.cpp** file. A context menu will appear.  
*(Note: You can select multiple files and folders at a time and add)*  
Select **TortoiseSVN -> Add**.



**4. File has been added successfully.**

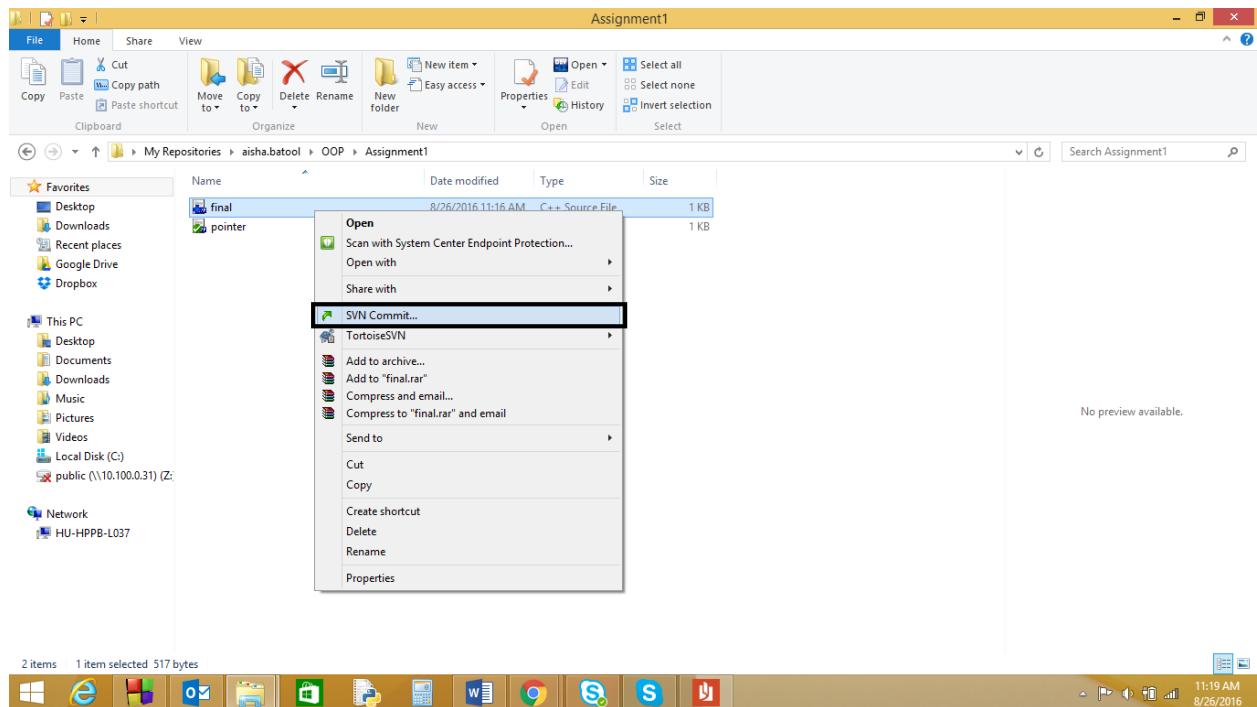


**5. Check the **Url** of the **repository**. Repository is still empty and added files are not yet on repository.**

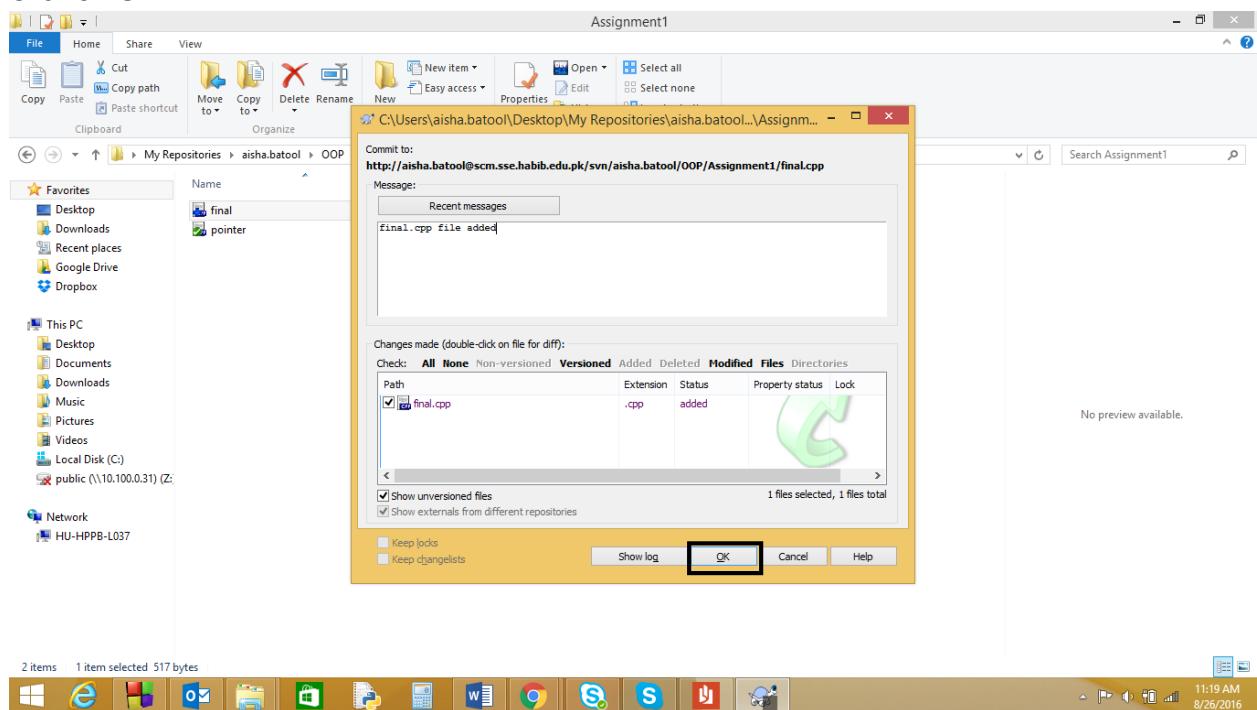
*You need to commit for transmitting files in repository.*

here'. At the bottom are links for 'Commits' and 'Source'. The bottom of the screen shows a taskbar with various icons and the date/time '8/26/2016 10:39 AM'."/&gt;

6. Right Click on **final.cpp** file. A context menu will appear.  
*(Note: You can select multiple files and folders at a time and commit)*  
 Select **SVN Commit**.



7. Following screen will appear.  
 Write the commit message inside the box – **final.cpp file added**.  
 Click on **OK**.

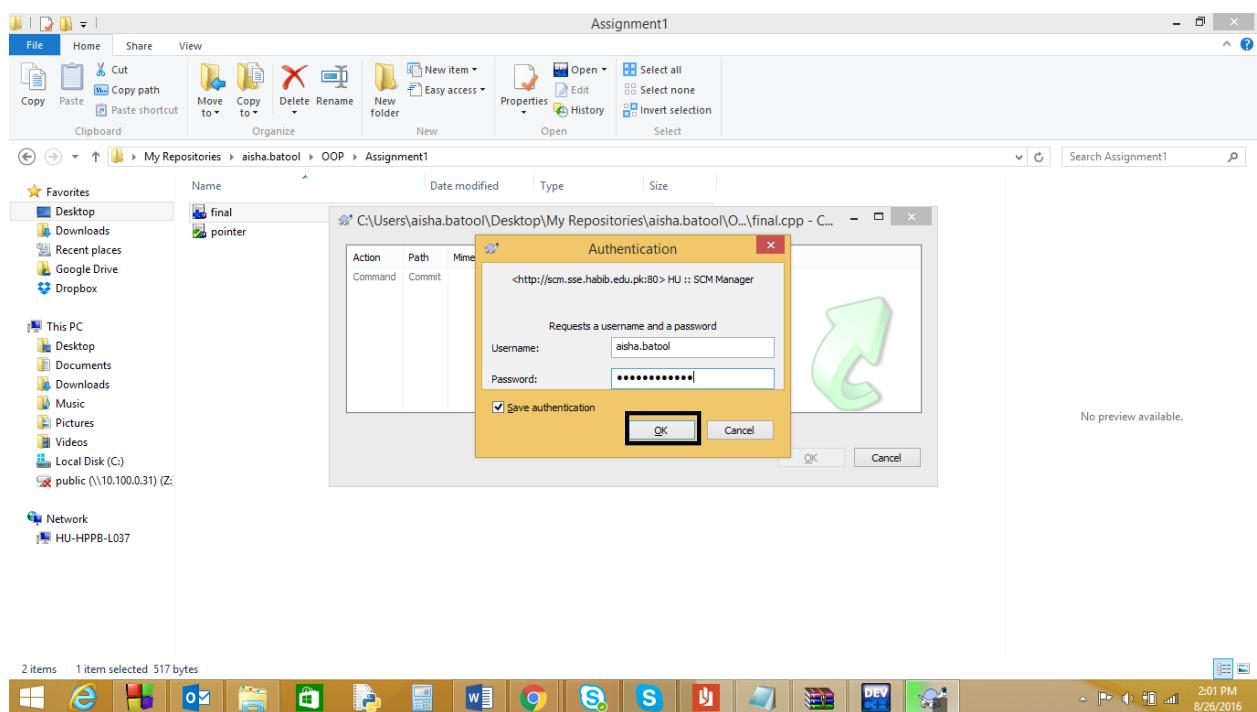
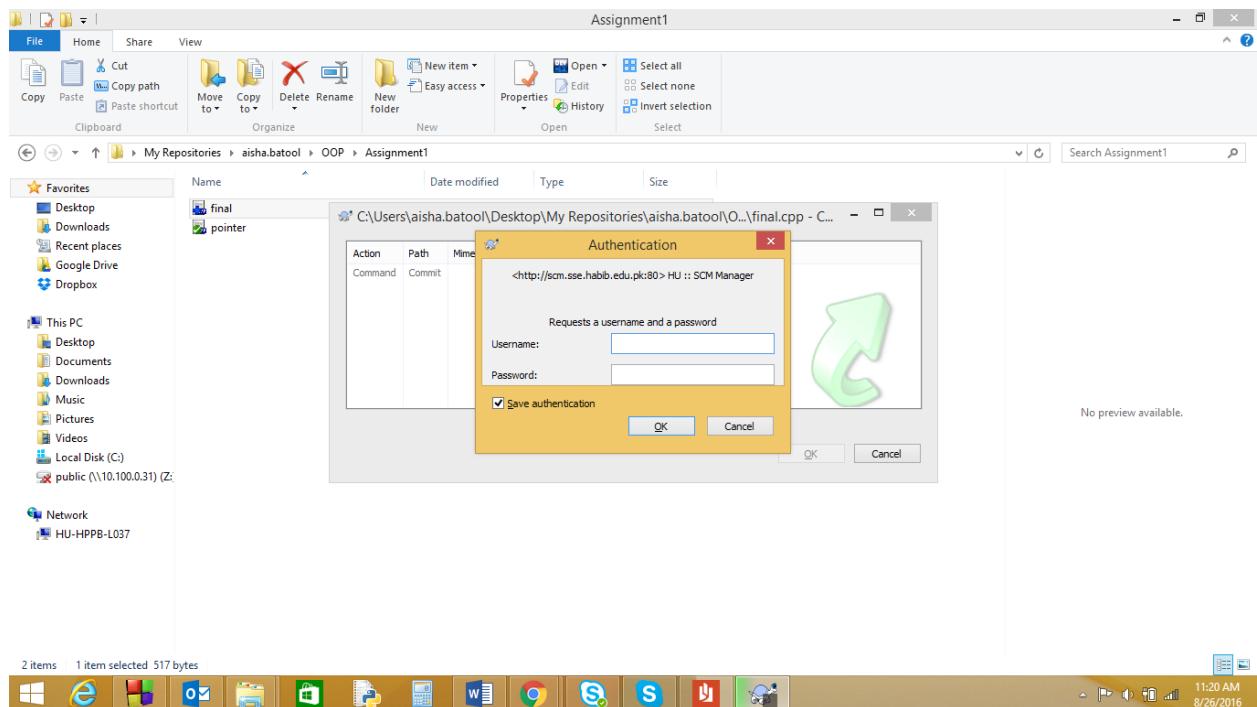


**8. Authentication window will open. Enter your SVN username and password.** (Your Habib credentials i.e. HU Username & Password).

If you are using lab PCs, don't forget to uncheck **Save Authentication**.

[Note: This Authentication Window will not appear if you checked Save Authentication in Step#3].

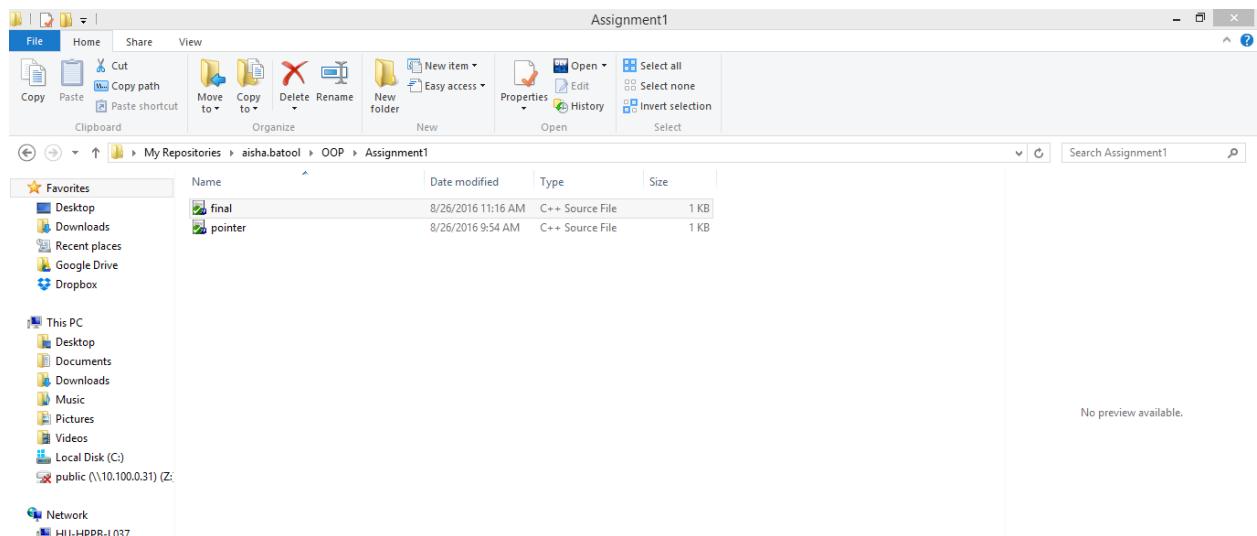
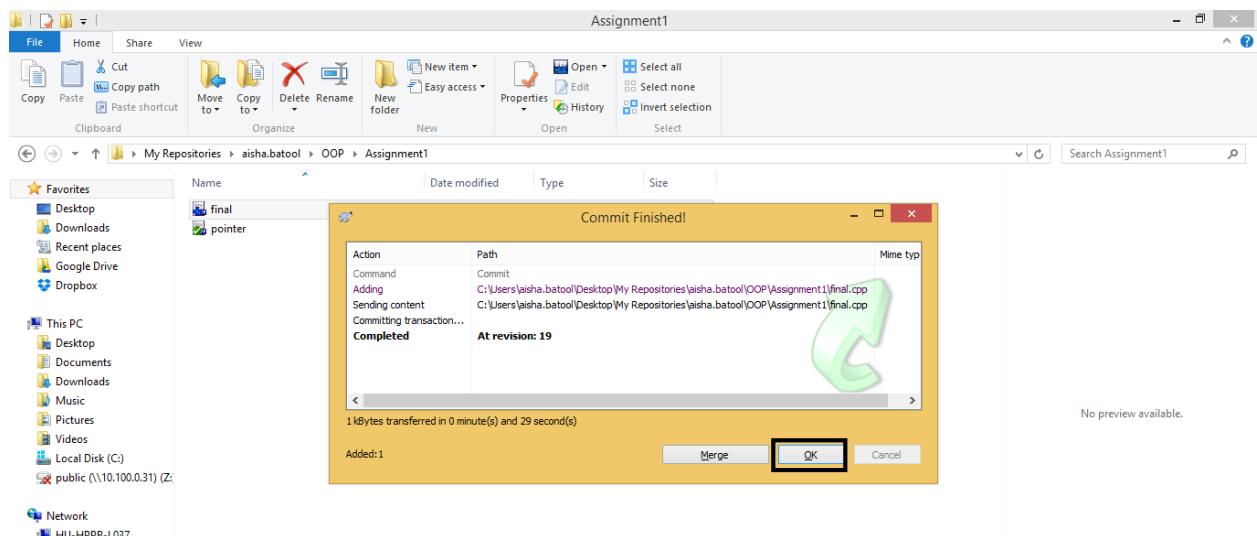
Click on **OK**.



9. You will see **log** of the files **committed**.

You have **committed** the files successfully.

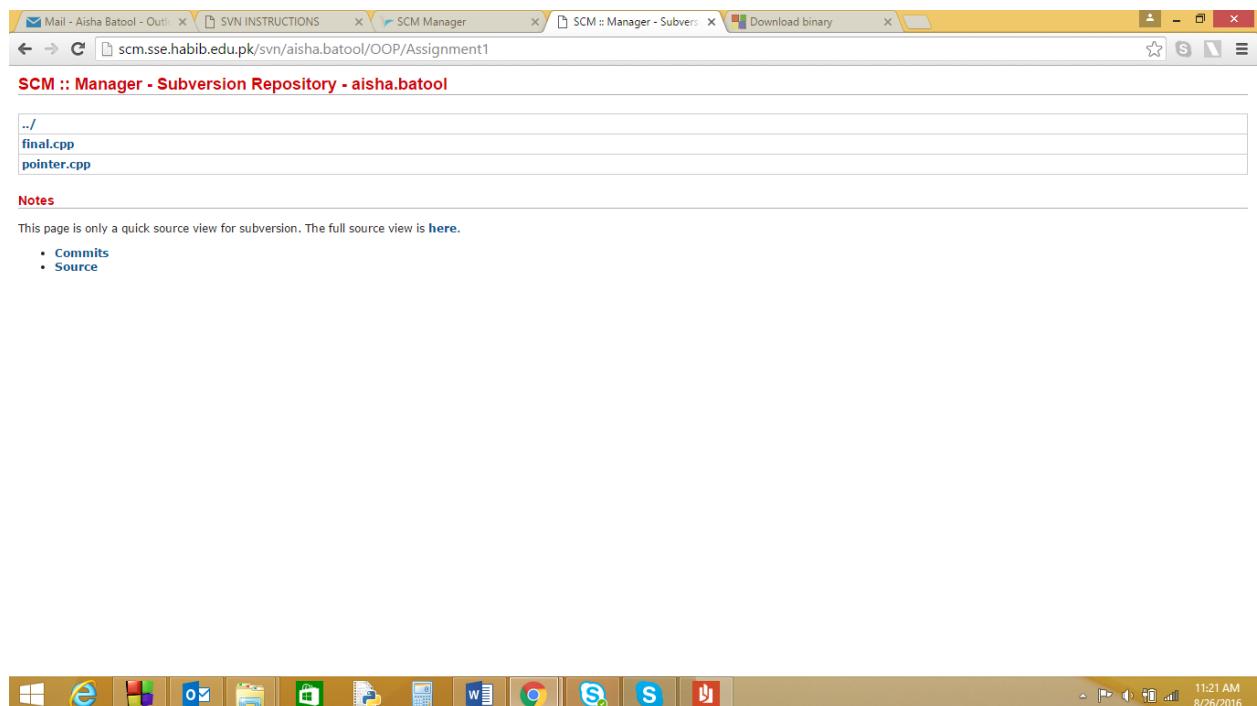
Click on **OK**.



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

<http://scm.sse.habib.edu.pk>

The files have been transmitted successfully on **SVN**.

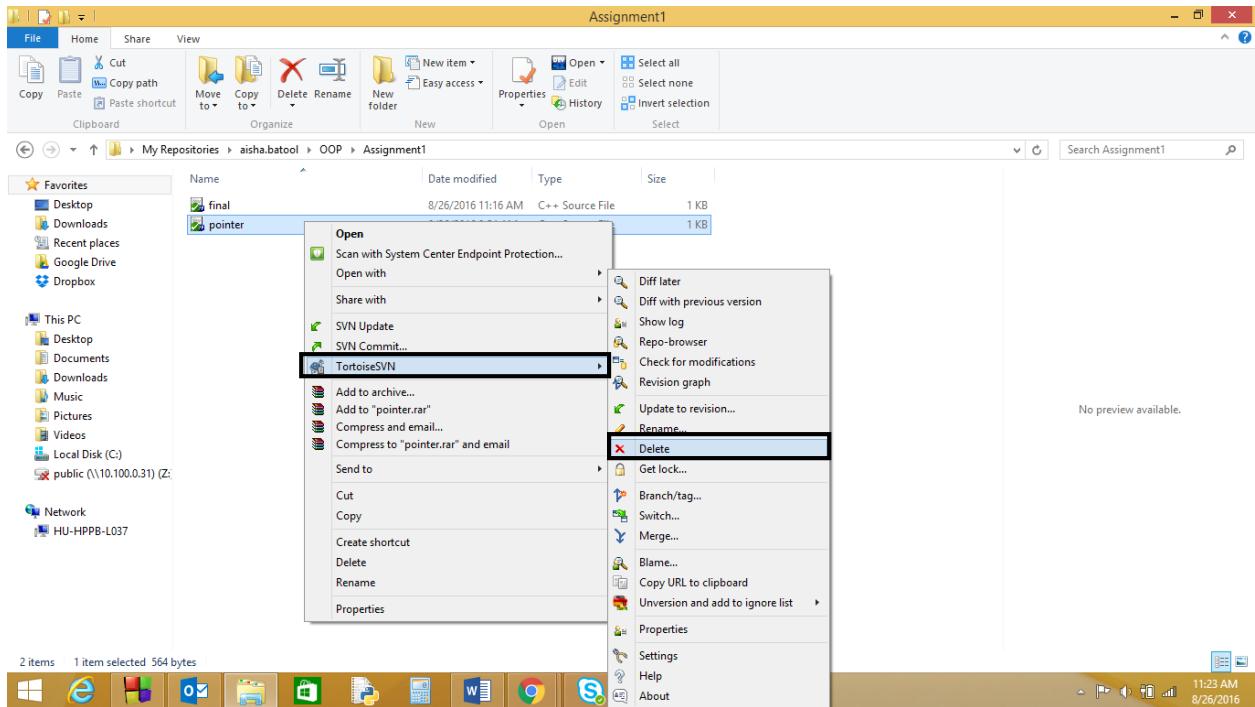


# Deleting Files from Repository

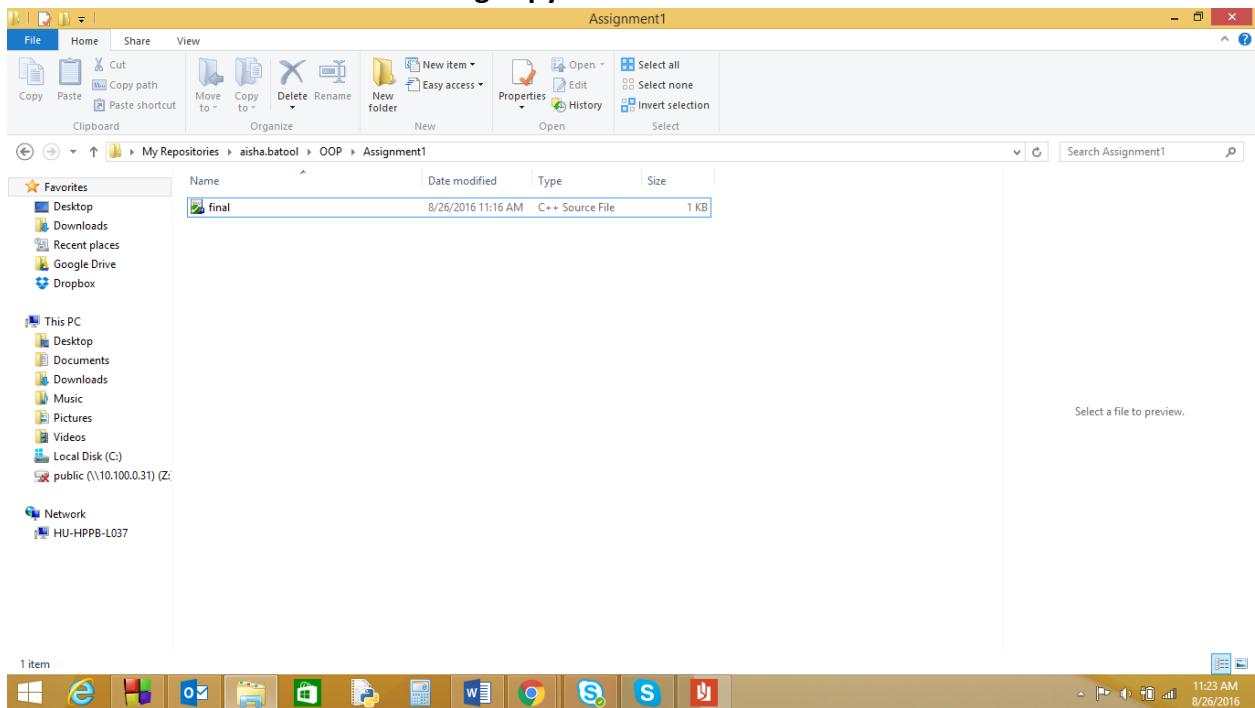
1. Right Click on **pointer.cpp** file.

(Note: You can select multiple files and folders at a time for deletion).

Select TortoiseSVN -> Delete.



2. File will be deleted from the **working copy**.



### 3. Check the Url of the repository.

Pointer.cpp has not been deleted in Repository.

You need to commit for deleting files in repository.

SCM :: Manager - Subversion Repository - aisha.batool

../  
final.cpp  
pointer.cpp

**Notes**

This page is only a quick source view for subversion. The full source view is [here](#).

- [Commits](#)
- [Source](#)

### 4. Right Click on your screen. A context menu will appear.

Select SVN Commit.

Assignment1

File Home Share View

Cut Copy Paste Copy path Move to Copy to Delete Rename New folder New Open Easy access Properties Select all Select none Select none Select none Invert selection

Clipboard Organize New Open History Select

11:21 AM 8/26/2016

My Repositories > aisha.batool > OOP > Assignment1

Search Assignment1

Name	Date modified	Type	Size
final	8/26/2016 11:16 AM	C++ Source File	1 KB

Favorites

- Desktop
- Downloads
- Recent places
- Google Drive
- Dropbox

This PC

- Desktop
- Documents
- Downloads
- Music
- Pictures
- Videos
- Local Disk (C:)
- public (\\\10.100.0.31) (Z:)

Network

- HU-HPPB-L037

View

Sort by

Group by

Refresh

Customize this folder...

Paste

Paste shortcut

Undo Copy Ctrl+Z

Graphics Properties...

Graphics Options

Share with

SVN Update

**SVN Commit...**

TortoiseSVN

New

Properties

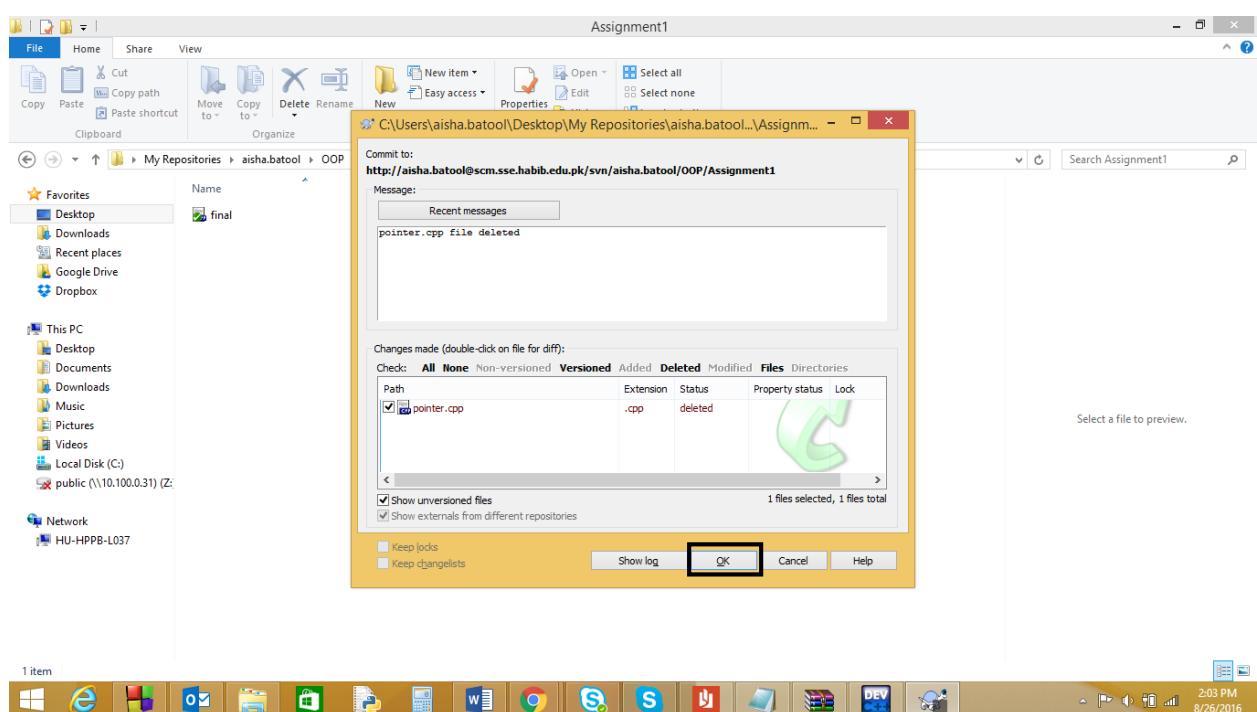
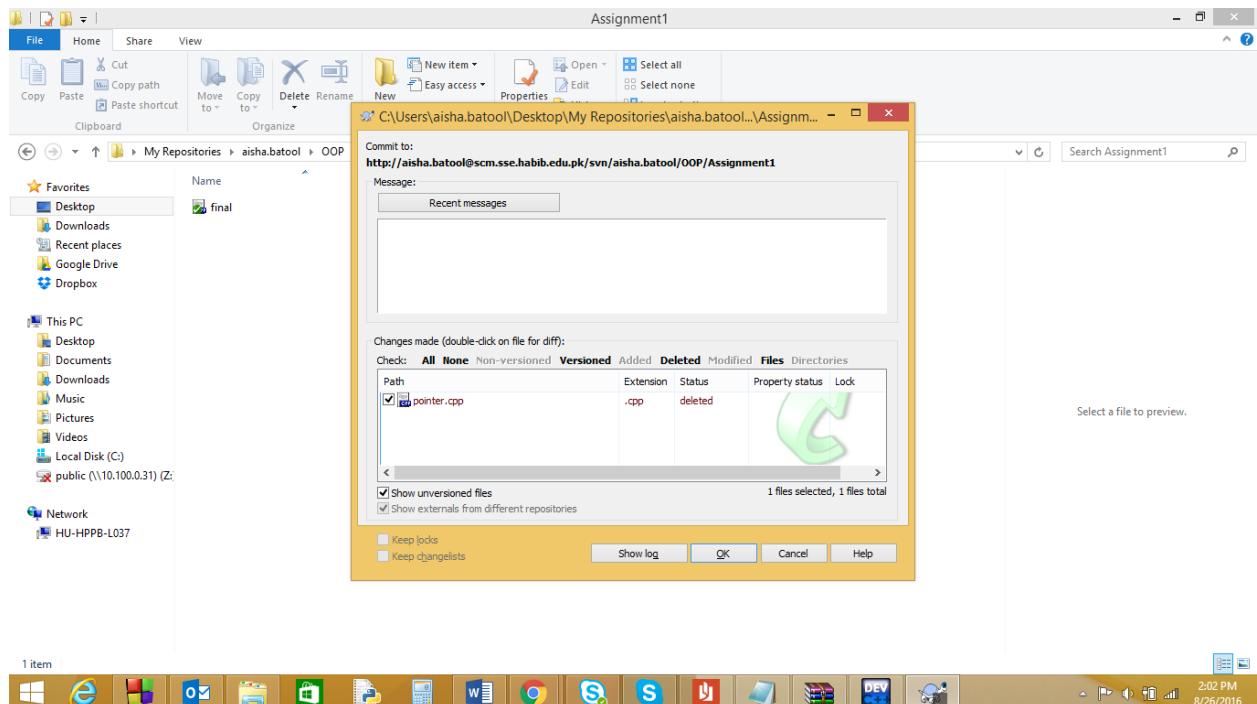
1 item

11:24 AM 8/26/2016

5. Following screen will appear.

Write the **commit message** inside the box – **pointer.cpp file deleted.**

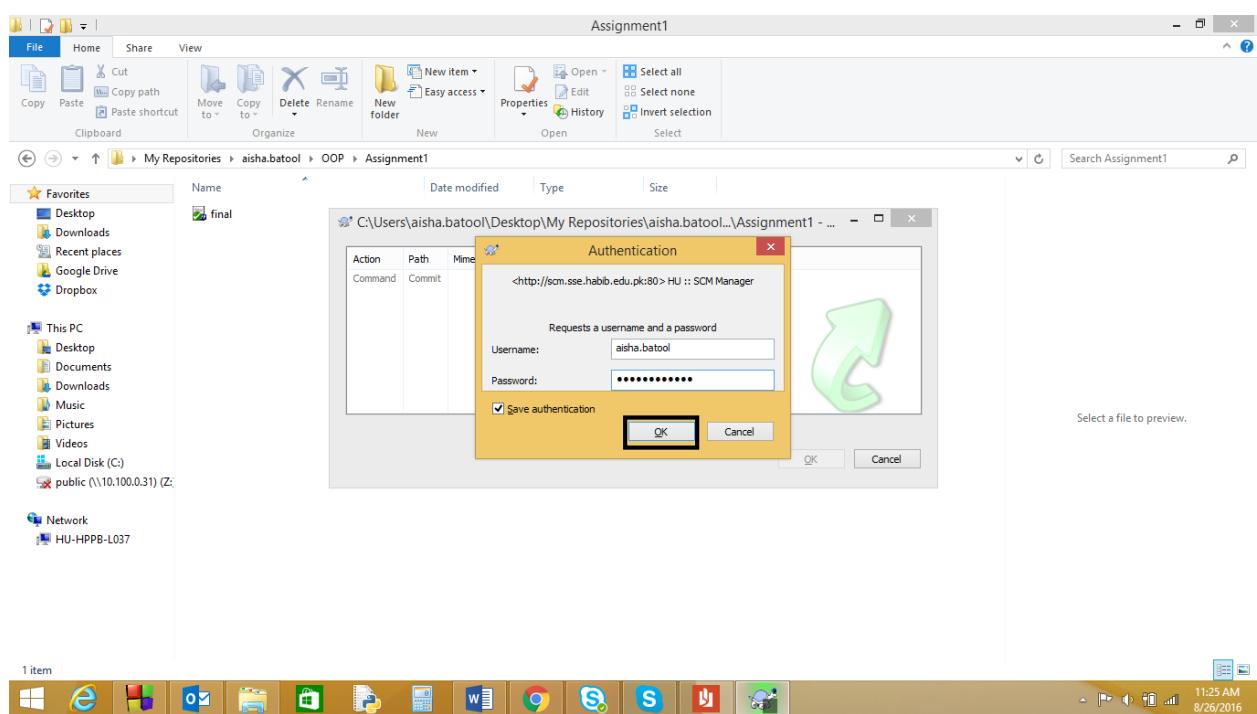
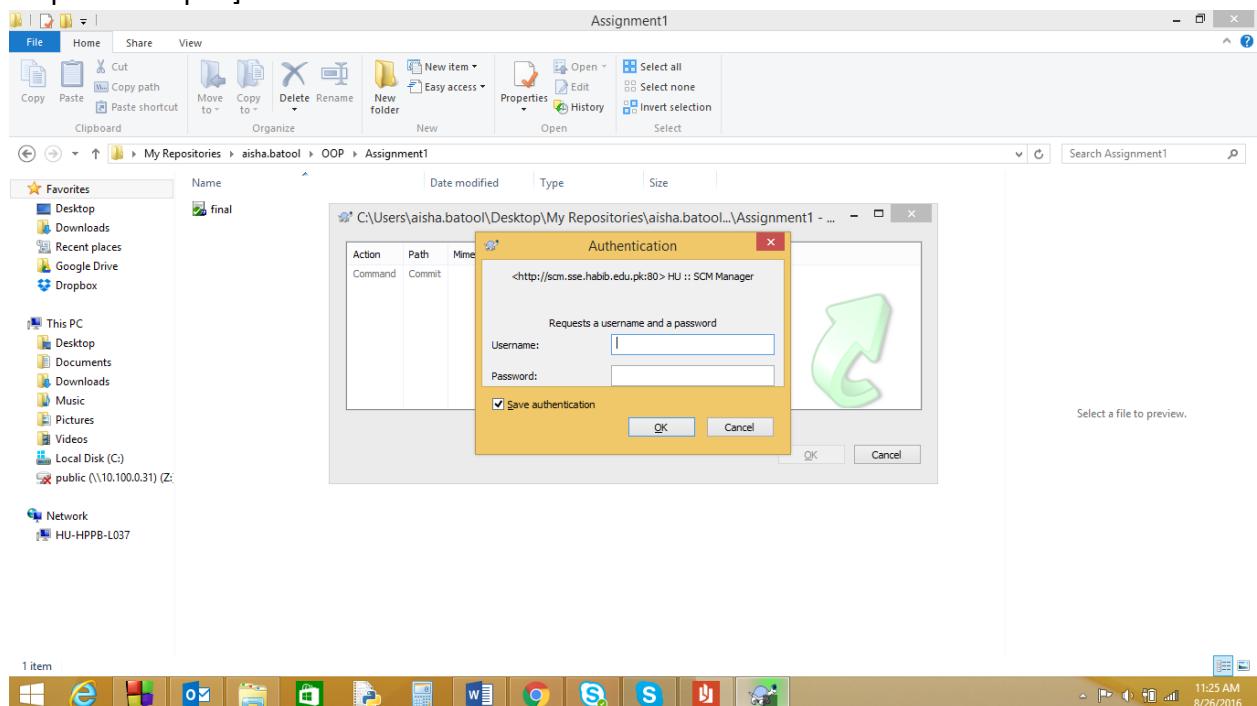
Click on **OK**.



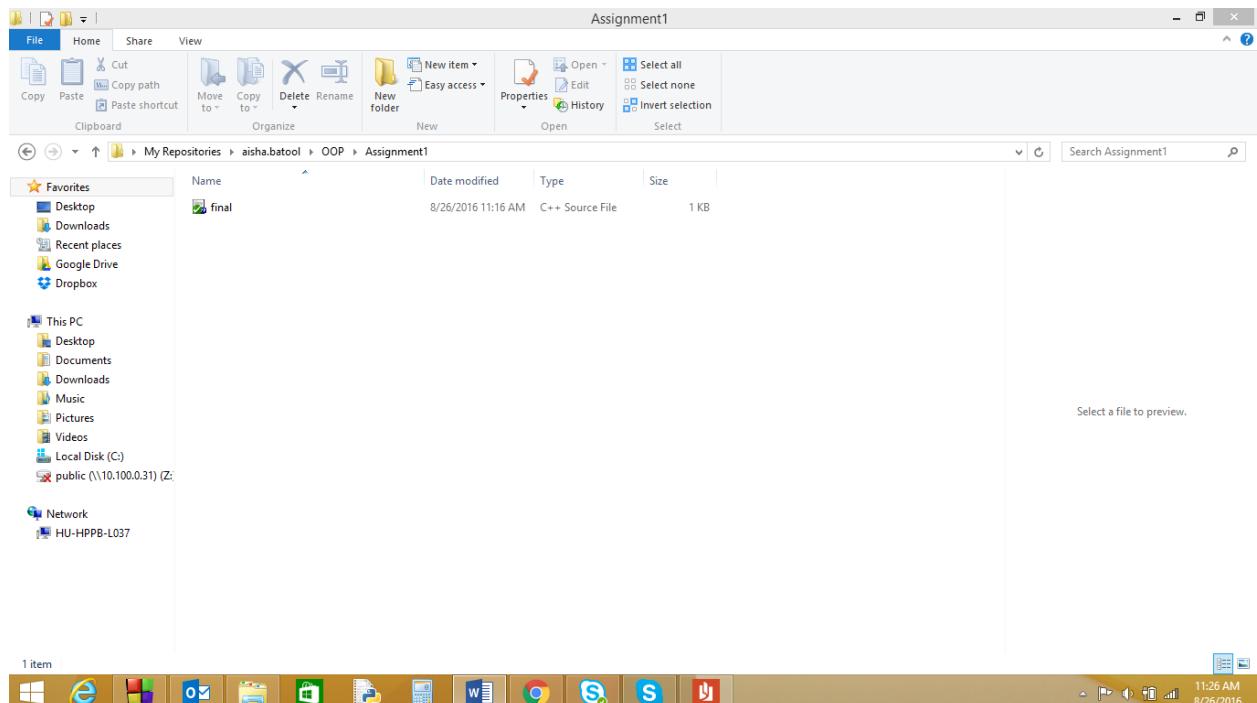
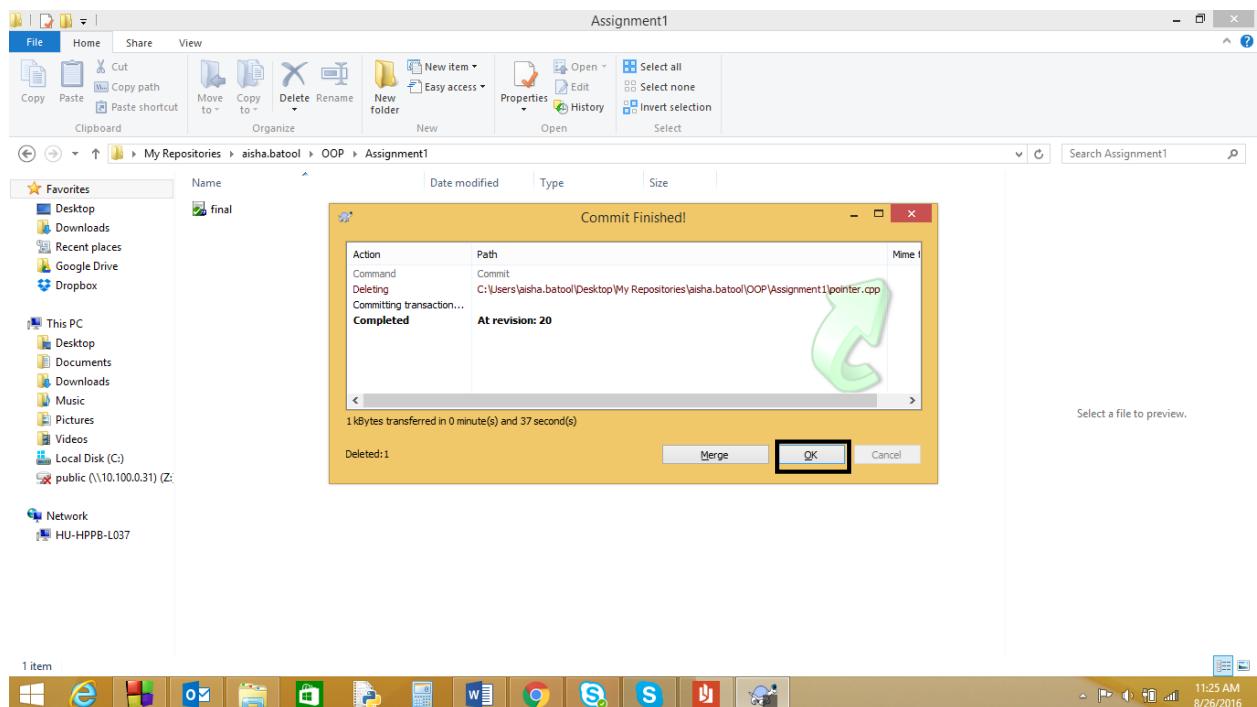
**6. Authentication window will open. Enter your SVN username and password (Your Habib credentials i.e. HU Username & Password).**

If you are using lab PCs, don't forget to uncheck **Save Authentication**.

[Note: This Authentication Window will not appear if you checked Save Authentication in Step#3 or Step#6].



7. You will see **log** of the files being **committed**.  
Click on **OK**.



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

<http://scm.sse.habib.edu.pk>.

The **changes** have been transmitted successfully on **SVN**.

