SVN Case Study

1. Check your current working directory
2. Before starting the migration, ensure you have the following tools installed:
3. Git
4. Subversion (SVN)
5. Git-svn
6. Create an empty directory for your new Git repository and initialize it:

7.Install subversion(SVN) to create a SVN repository

8. Create a SVN repository and repository structure

9. Create a test directory called my-working-copy and add files like test-file.txt and file.txt.

10. Add the new files to svn and commit the changes using svn add and svn commit commands.

11. Verify the changes using svn log command

12. Checkout the repository to work locally

```
bhargava@23372bc849b55ff:~$ mkdir /home/bhargava/my-working-copy
bhargava@23372bc849b55ff:~$ cd /home/bhargava/my-working-copy
bhargava@23372bc849b55ff:~/my-working-copy$ svn checkout file:///home/bhargava/my-svn-repo/trunk /home/bhargava/my-working-copy
Checked out revision 1.
bhargava@23372bc849b55ff:~/my-working-copy$ echo "This is a test case file" > test-file.txt
bhargava@23372bc849b55ff:~/my-working-copy$ svn add test-file.txt
A         test-file.txt
bhargava@23372bc849b55ff:~/my-working-copy$ svn commit -m "Added test-file.txt"
Adding         test-file.txt
Transmitting file data .done
Committing transaction...
Committed revision 2.
bhargava@23372bc849b55ff:~/my-working-copy$ svn log file:///home/bhargava/my-svn-repo
------------------------------------------------------------------------
r2 | bhargava | 2025-01-31 06:36:40 +0000 (Fri, 31 Jan 2025) | 1 line

Added test-file.txt
------------------------------------------------------------------------
r1 | bhargava | 2025-01-31 06:30:30 +0000 (Fri, 31 Jan 2025) | 1 line

Initial Structure
------------------------------------------------------------------------
bhargava@23372bc849b55ff:~/my-working-copy$ echo "Another change" >> file.txt
bhargava@23372bc849b55ff:~/my-working-copy$ svn add file.txt
A         file.txt
bhargava@23372bc849b55ff:~/my-working-copy$ svn commit -m "Made changes to file.txt"
Adding         file.txt
Transmitting file data .done
Committing transaction...
Committed revision 3.
```

13. Now you will use svn-git to clone the SVN repository into your git repository new-git-repo

```
bhargava@23372bc849b55ff:~/my-working-copy$ svn list file:///home/bhargava/my-svn-repo/trunk
file.txt
test-file.txt
bhargava@23372bc849b55ff:~/my-working-copy$ git svn clone file:///home/bhargava/my-svn-repo --stdlayout /home/bhargava/new-git-repo
hint: Using 'master' as the name for the initial branch. This default branch name
hint: is subject to change. To configure the initial branch name to use in all
hint: of your new repositories, which will suppress this warning, call:
hint:
hint:   git config --global init.defaultBranch <name>
hint:
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and
hint: 'development'. The just-created branch can be renamed via this command:
hint:
hint:   git branch -m <name>
Initialized empty Git repository in /home/bhargava/new-git-repo/.git/
r1 = 31bfea08e80f8fde2f71c01bf2a67a8b28b3e847 (refs/remotes/origin/trunk)
        A         test-file.txt
r2 = bc31c090113ddee1657da2a2dae9bc628a16eb7b (refs/remotes/origin/trunk)
        A         file.txt
r3 = b32addab1dcb5983e7d51e6856225af5aedb209e (refs/remotes/origin/trunk)
Checked out HEAD:
  file:///home/bhargava/my-svn-repo/trunk r3
bhargava@23372bc849b55ff:~/my-working-copy$ _
```

Name	Date modified	Type	Size
.cache	21-01-2025 10:28	File folder	
.landscape	21-01-2025 10:28	File folder	
.local	21-01-2025 12:46	File folder	
.ssh	23-01-2025 11:56	File folder	
.subversion	31-01-2025 11:07	File folder	
bhargav-git-repo	31-01-2025 11:54	File folder	
my-svn-repo	31-01-2025 11:57	File folder	
my-working-copy	31-01-2025 12:09	File folder	
new-git-repo	31-01-2025 14:50	File folder	
website	23-01-2025 12:15	File folder	

Name	Date modified	Type	Size
.git	31-01-2025 14:50	File folder	
file	31-01-2025 14:50	Text Document	1 KB
test-file	31-01-2025 14:50	Text Document	1 KB