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Roll no:- 42
Div:- TE-15

Practical No: -10

Aim: - Version controlling of the project.

Lab Outcome: - CSL501.3 Use computer-aided software engineering (CASE) tools.

Theory: - version Control System

A version control system is a software that tracks changes to a file or set of files over time so that you can recall specific versions later. It also allows you to work together with other programmers.

The version control system is a collection of software tools that help a team to manage changes in a source code. It uses a special kind of database to keep track of every modification to the code.

Developers can compare earlier versions of the code with an older version to fix the mistakes.

Benefits of the Version Control System

The Version Control System is very helpful and beneficial in software development; developing software without using version control is unsafe. It provides backups for uncertainty. Version control systems offer a speedy interface to developers. It also allows software teams to preserve efficiency and agility according to the team scales to include more developers.

Some key benefits of having a version control system are as follows.

- Complete change history of the file
- Simultaneously working
- Branching and merging
- Traceability

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Output: -

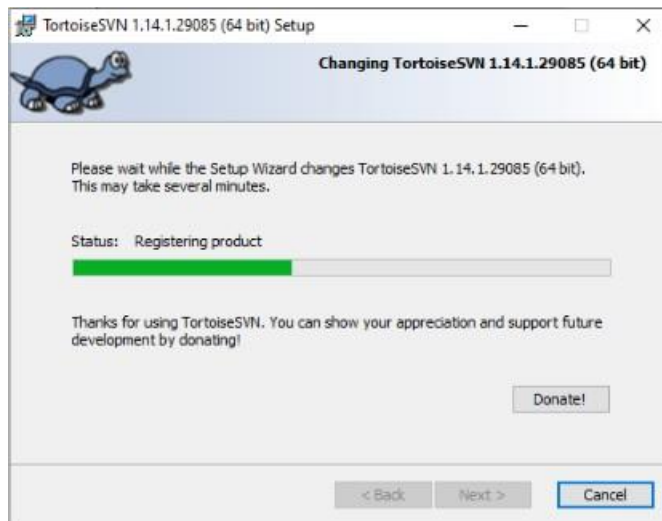
1. Installation of SVN – Tortoise



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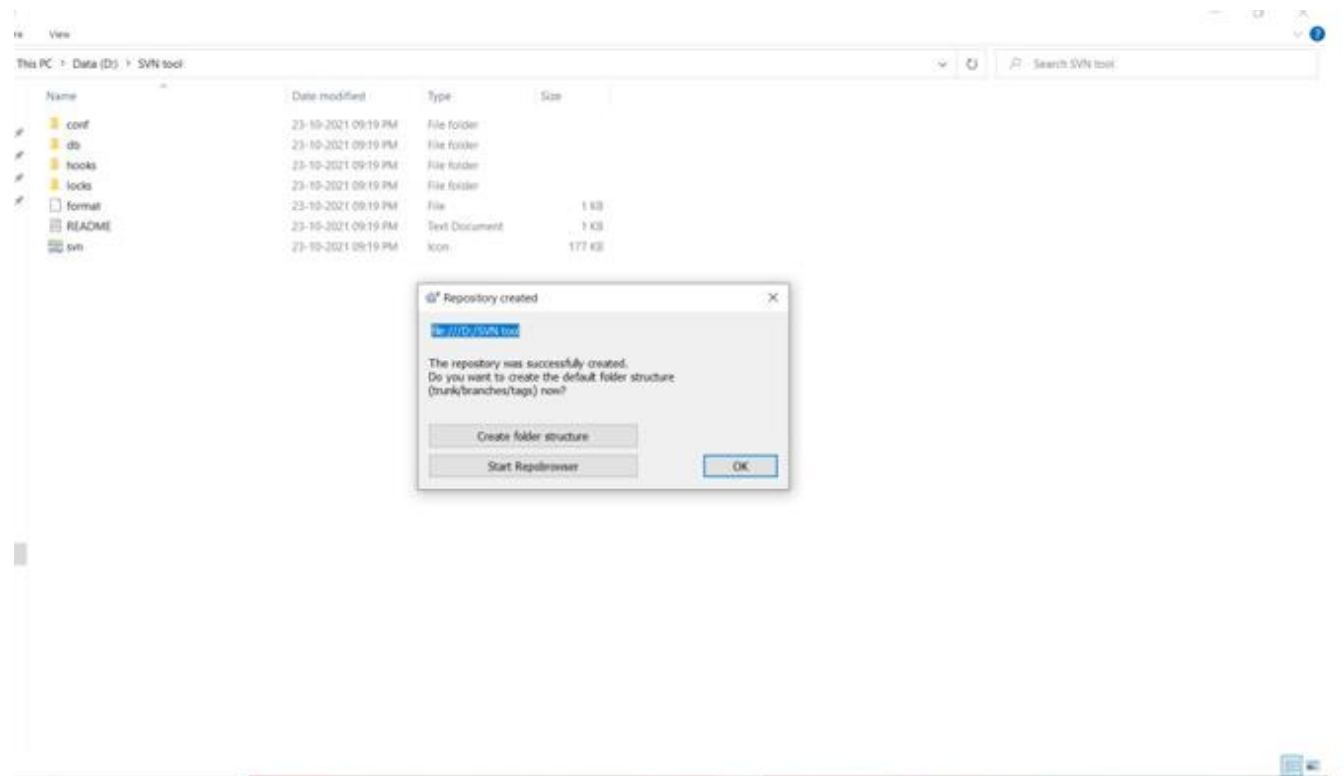


2. SVN repository created

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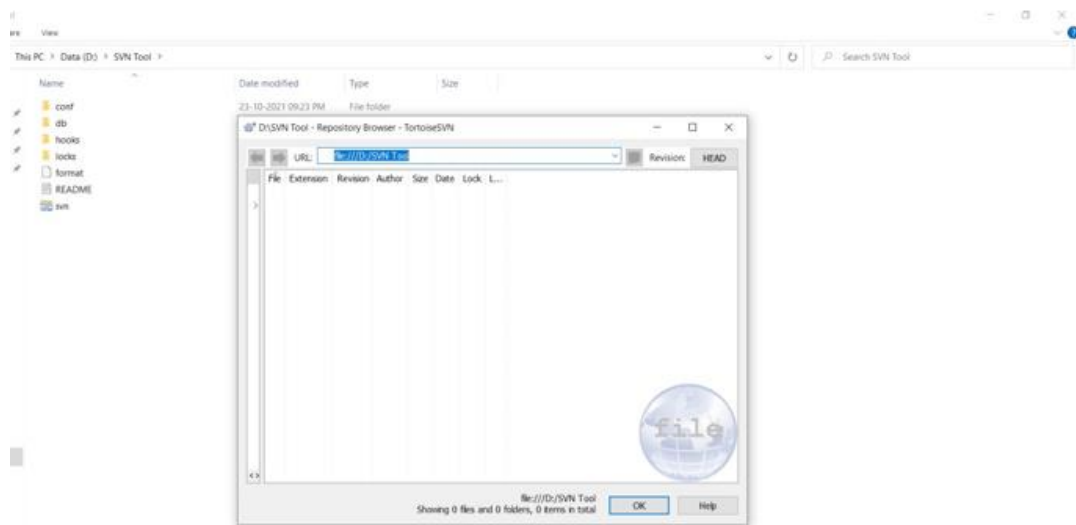
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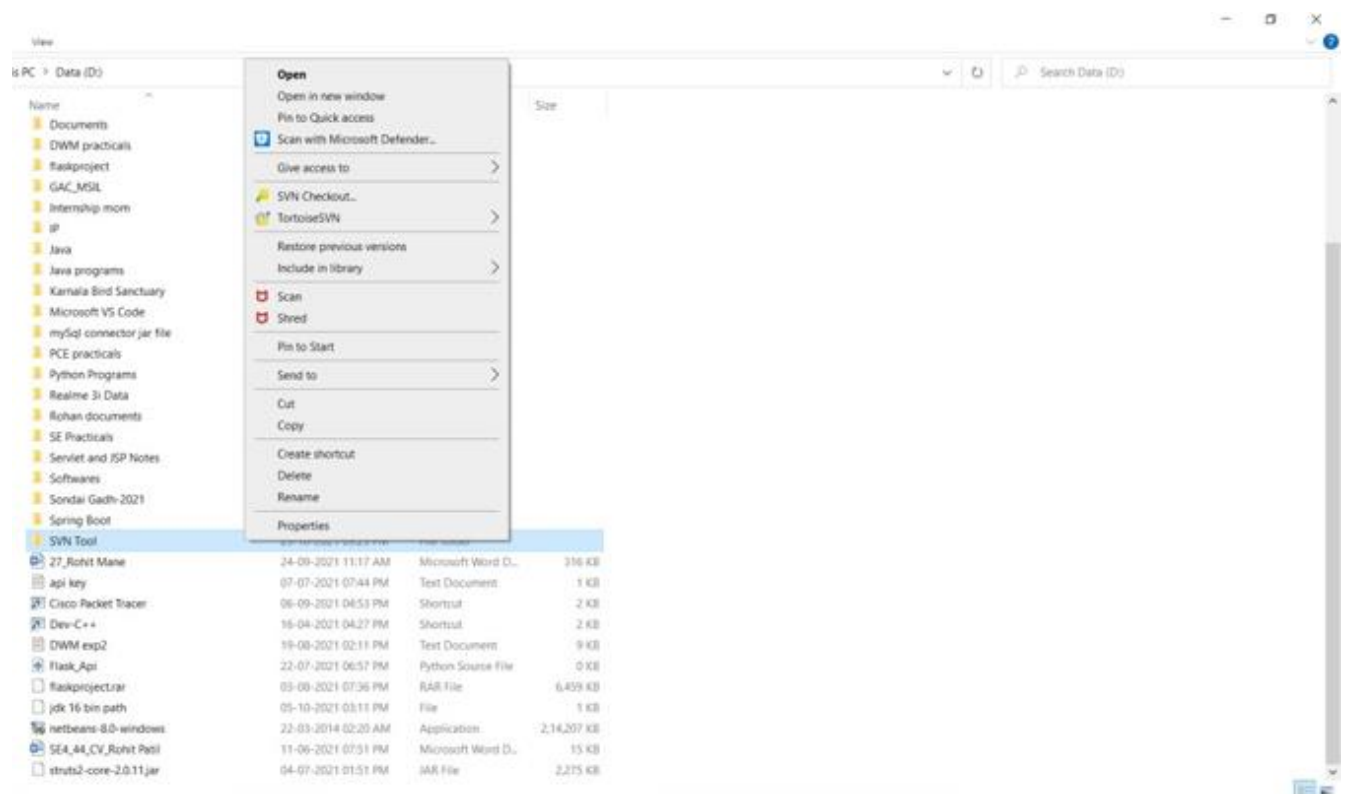
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3. SVN Checkout

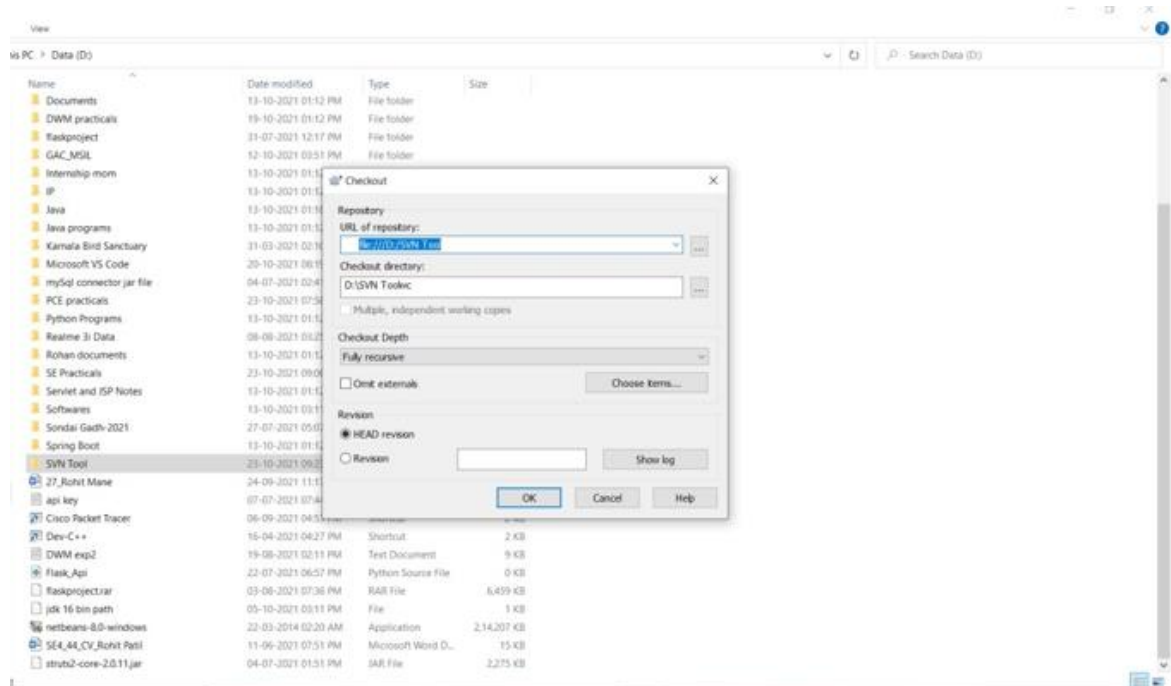


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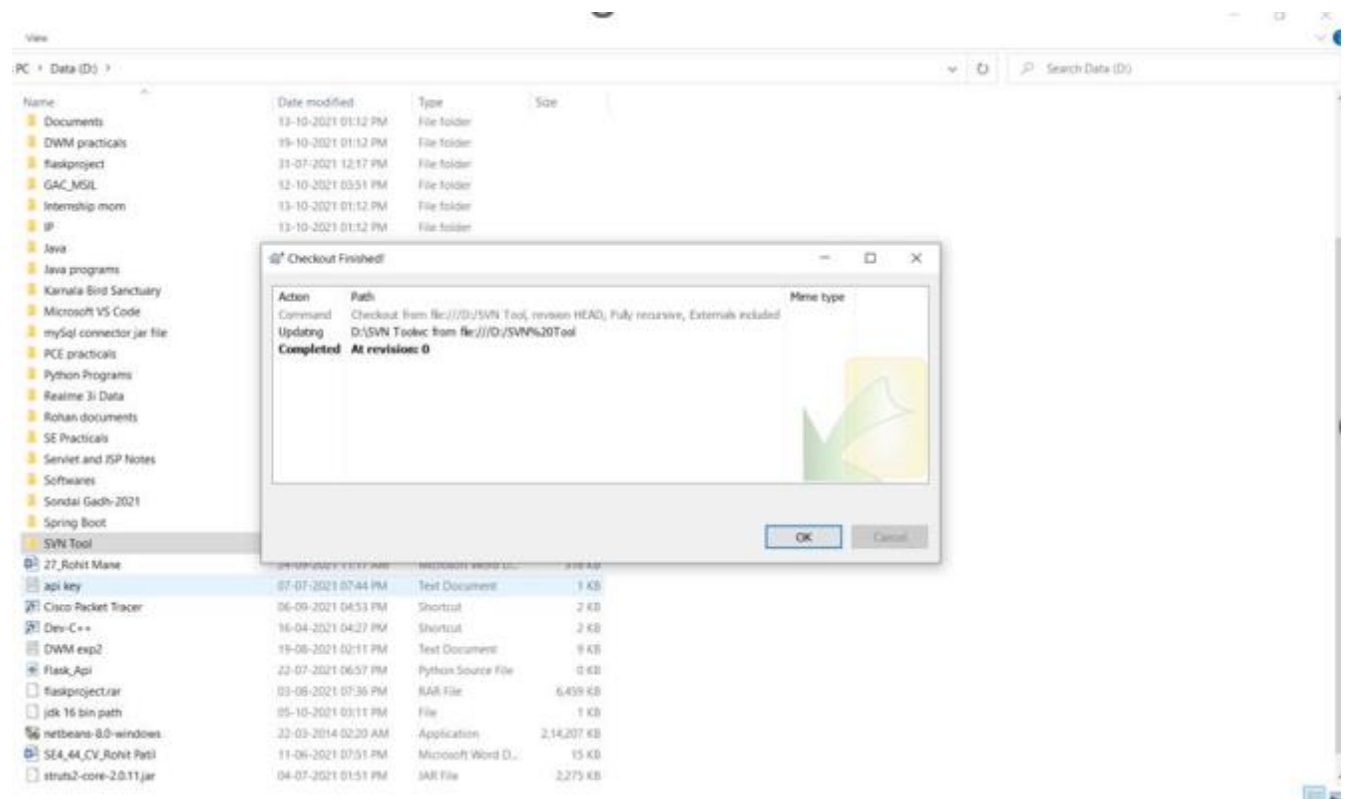
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4. Checkout Dialogue Box: Browsing the repository.



5. Checkout Finished

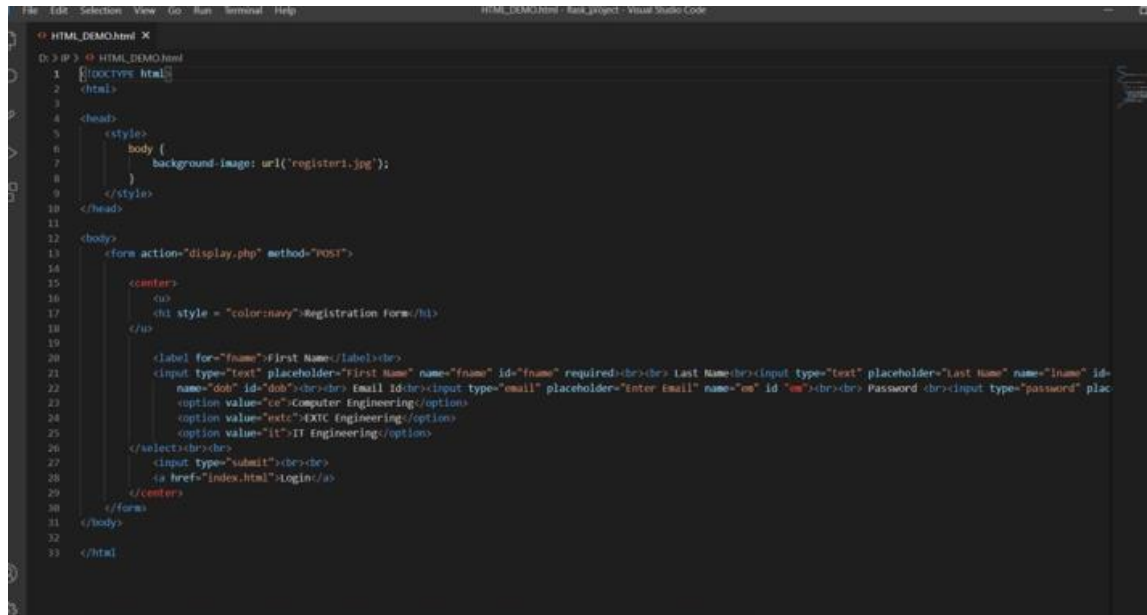


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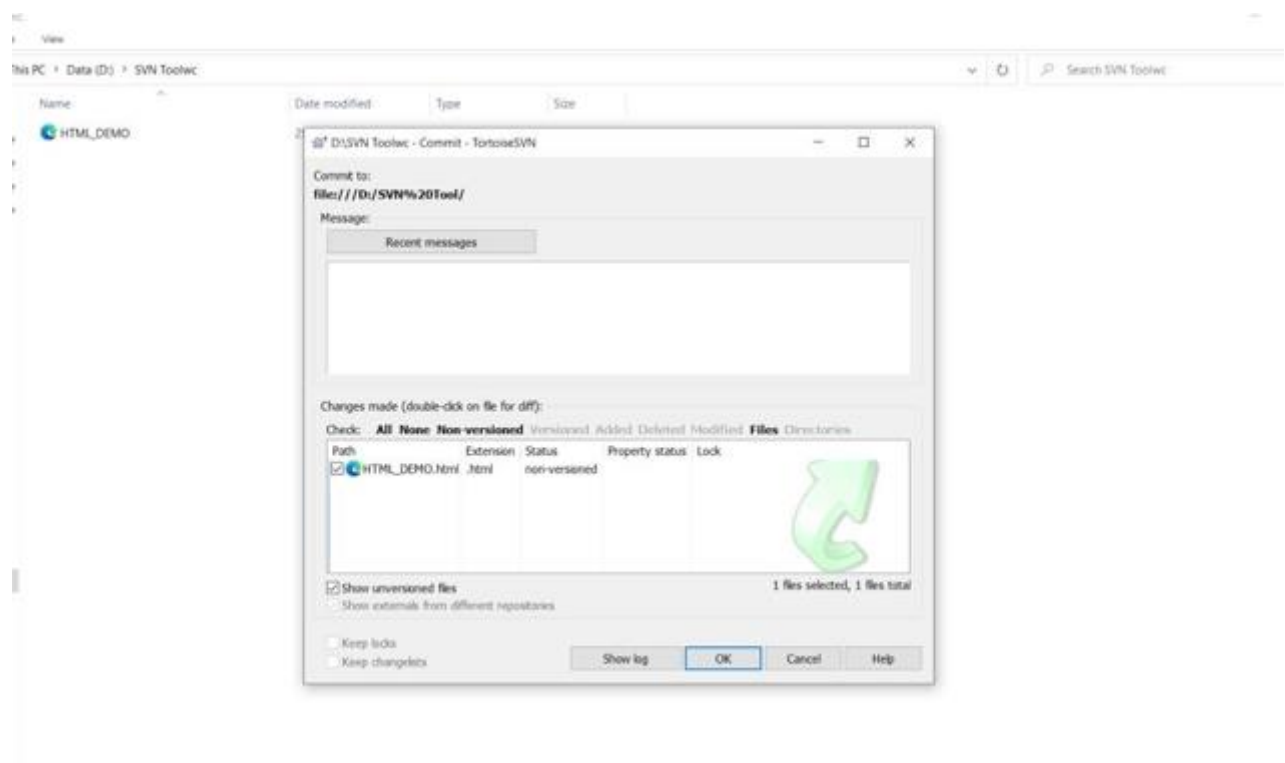
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6. Creating HTML Document



```
1 <!DOCTYPE html>
2 <html>
3
4 <head>
5   <style>
6     body {
7       background-image: url('register1.jpg');
8     }
9   </style>
10 </head>
11
12 <body>
13   <form action="display.php" method="POST">
14
15     <center>
16       <div style="color:navy">Registration form</div>
17     </center>
18
19     <label for="fname">First Name</label><br>
20     <input type="text" placeholder="First Name" name="fname" id="fname" required><br>
21     <label for="lname">Last Name</label><br>
22     <input type="text" placeholder="Last Name" name="lname" id="lname" required><br>
23     <label for="email">Email</label><br>
24     <input type="email" placeholder="Enter Email" name="em" id="em"><br>
25     <label for="password">Password</label><br>
26     <input type="password" placeholder="Enter Password" name="pass" id="pass"><br>
27     <div>
28       <select>
29         <option value="ce">Computer Engineering</option>
30         <option value="exc">EXC Engineering</option>
31         <option value="it">IT Engineering</option>
32       </select>
33     </div>
34     <input type="submit" value="Submit"><br>
35     <a href="index.html">Login</a>
36   </form>
37 </body>
38 </html>
```

7. File Commit

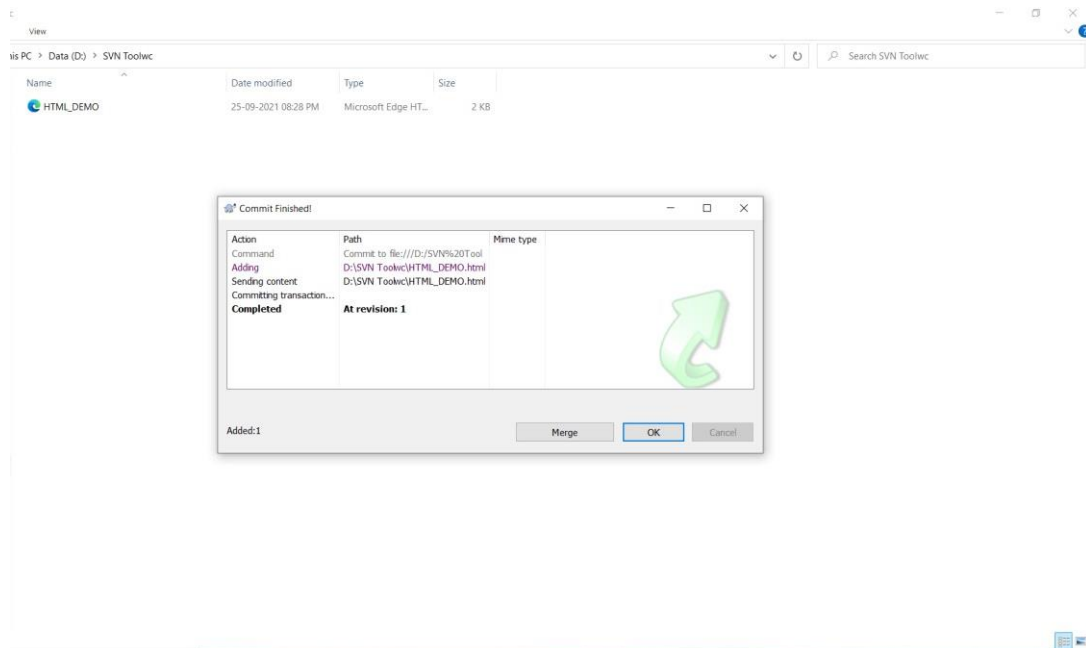


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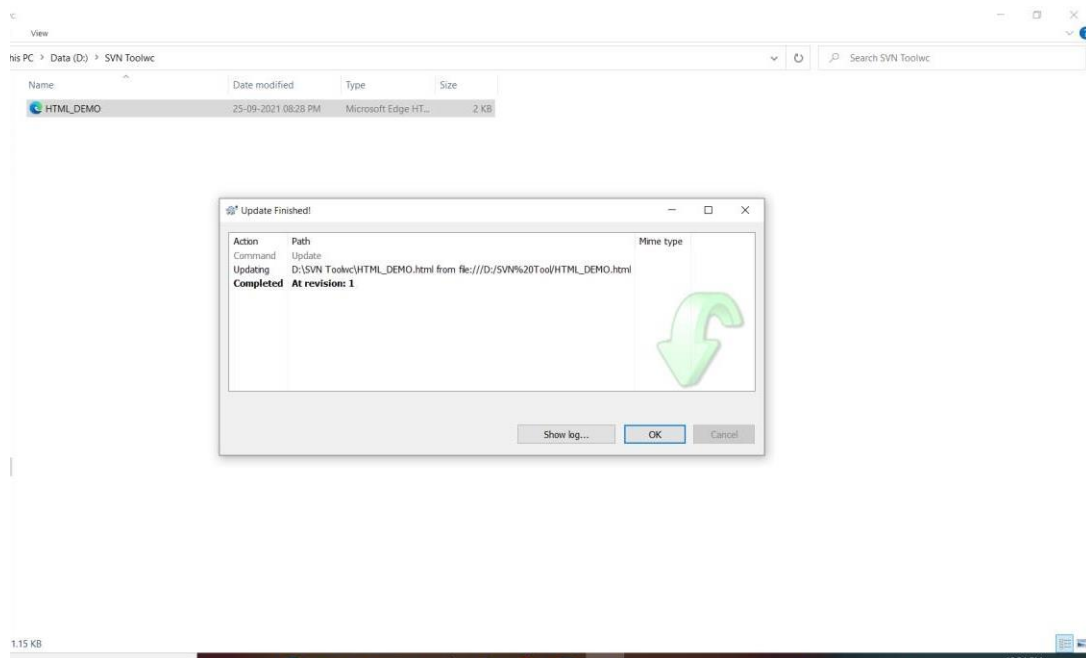
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8. Commit Finished



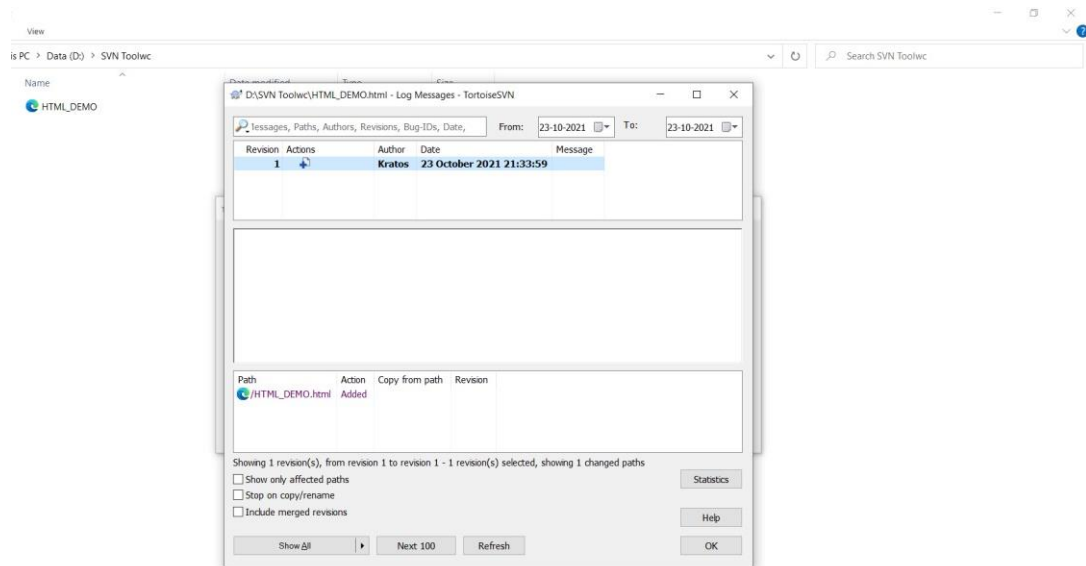
9. Edit the HTML file.

10.SVN File Update

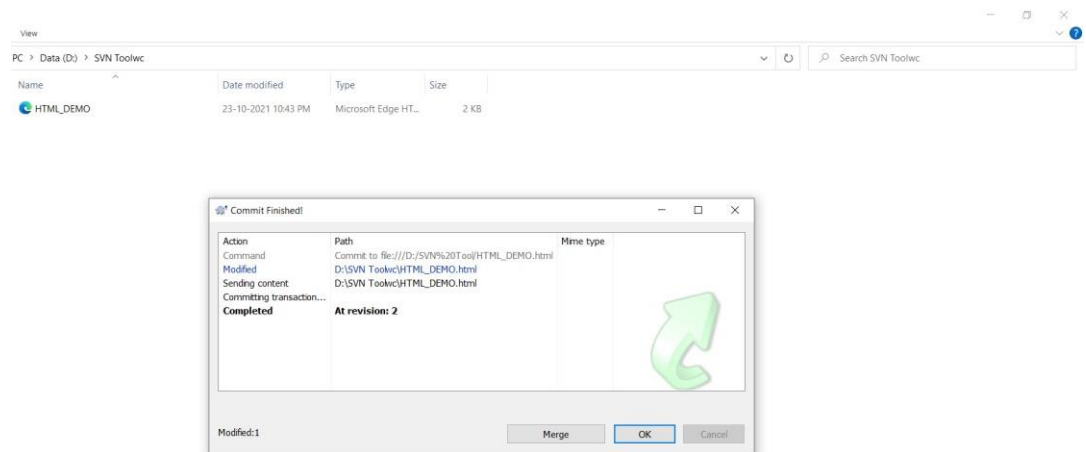


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11. File Commit in SVN Repository



12. File Commit Finished

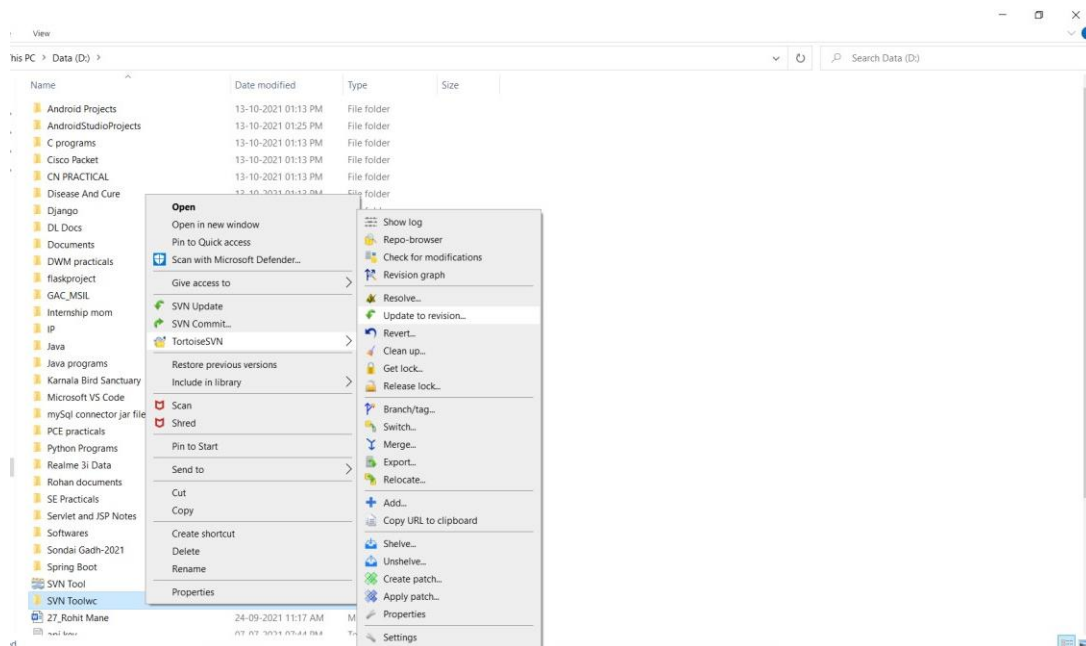


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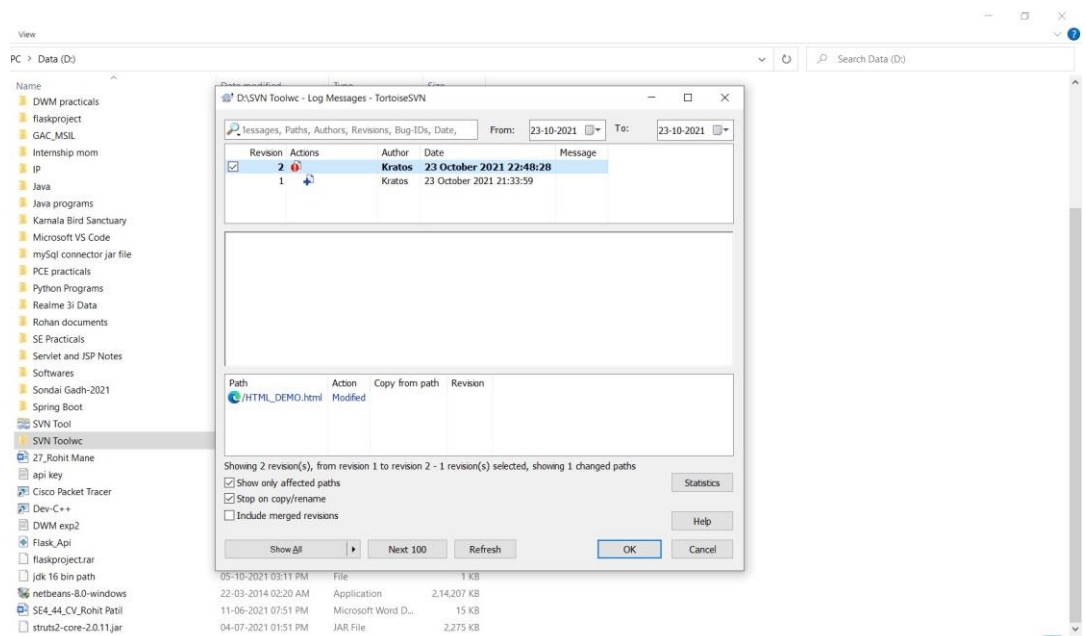
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13. Performing Rollback to the First Transaction of update



14. Selecting the Log to rollback to the previous version.

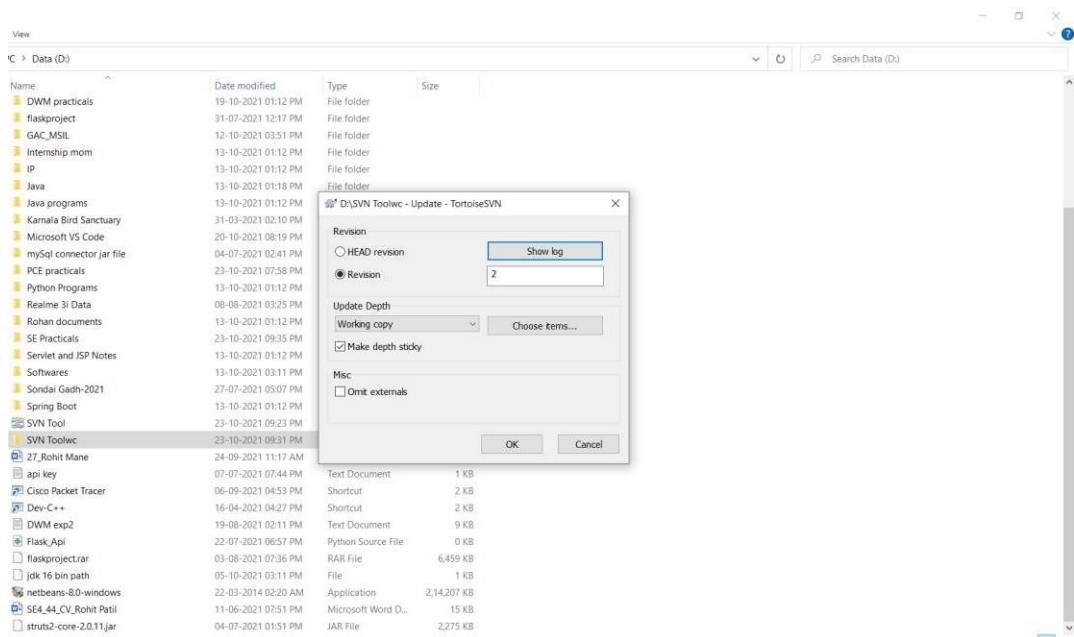


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15. Logs of File



16. Output after Rollback to checkpoint 1

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File | D:\SVN%20Toolwc\HTML_DEMO.html

Registration Form:

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Last Name

Date of Birth

Email Id

Password

Branch

[Login](#)

Conclusion: - Here, we successfully understand and implemented the concept of version controlling in project.