

**CLOUD COMPUTING LAB:02**

**Submitted By:** Seerat Fatima

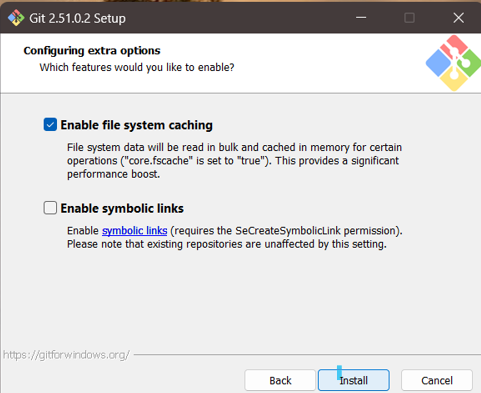
**Registration.no:** 2023-BSE-060

**Section: 5B**

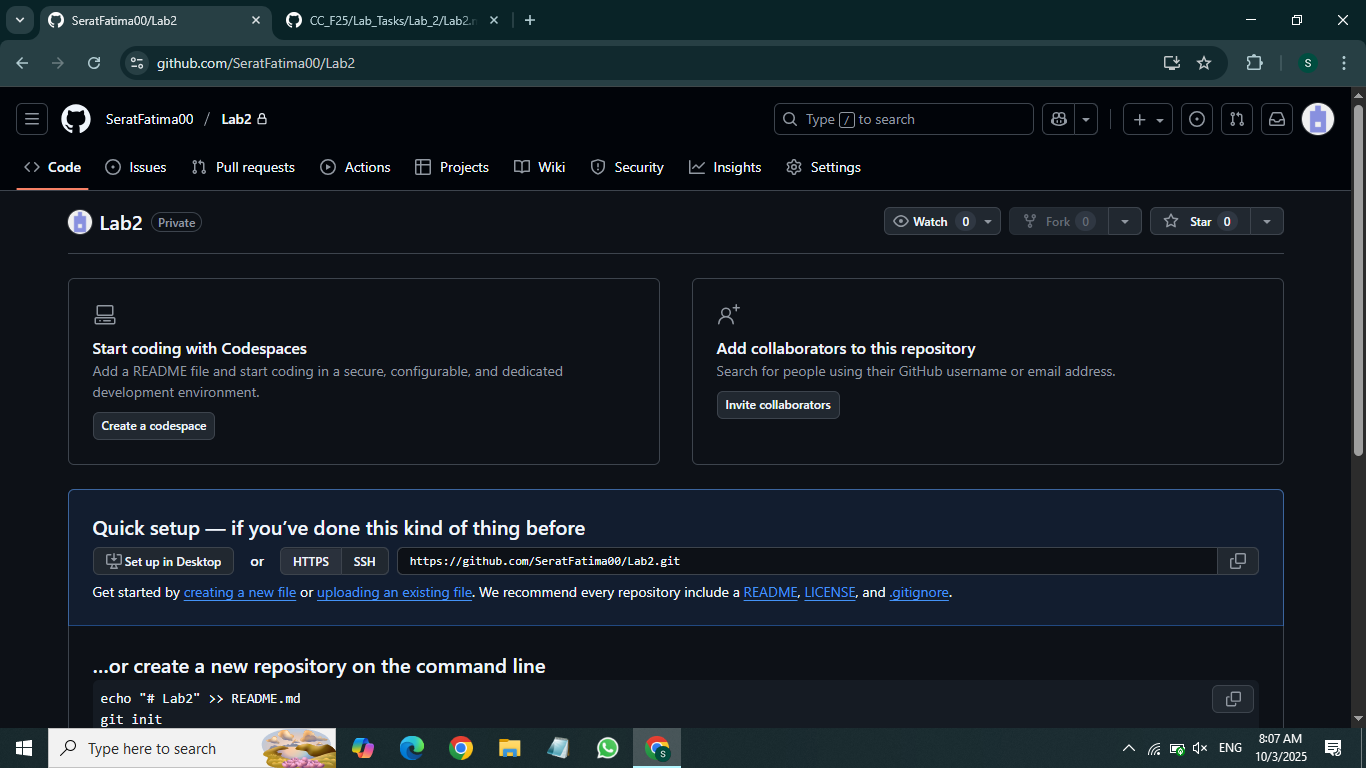
**Submitted To:** Engr.Shoaib

**Install Git on your PC.** A screenshot of a computer

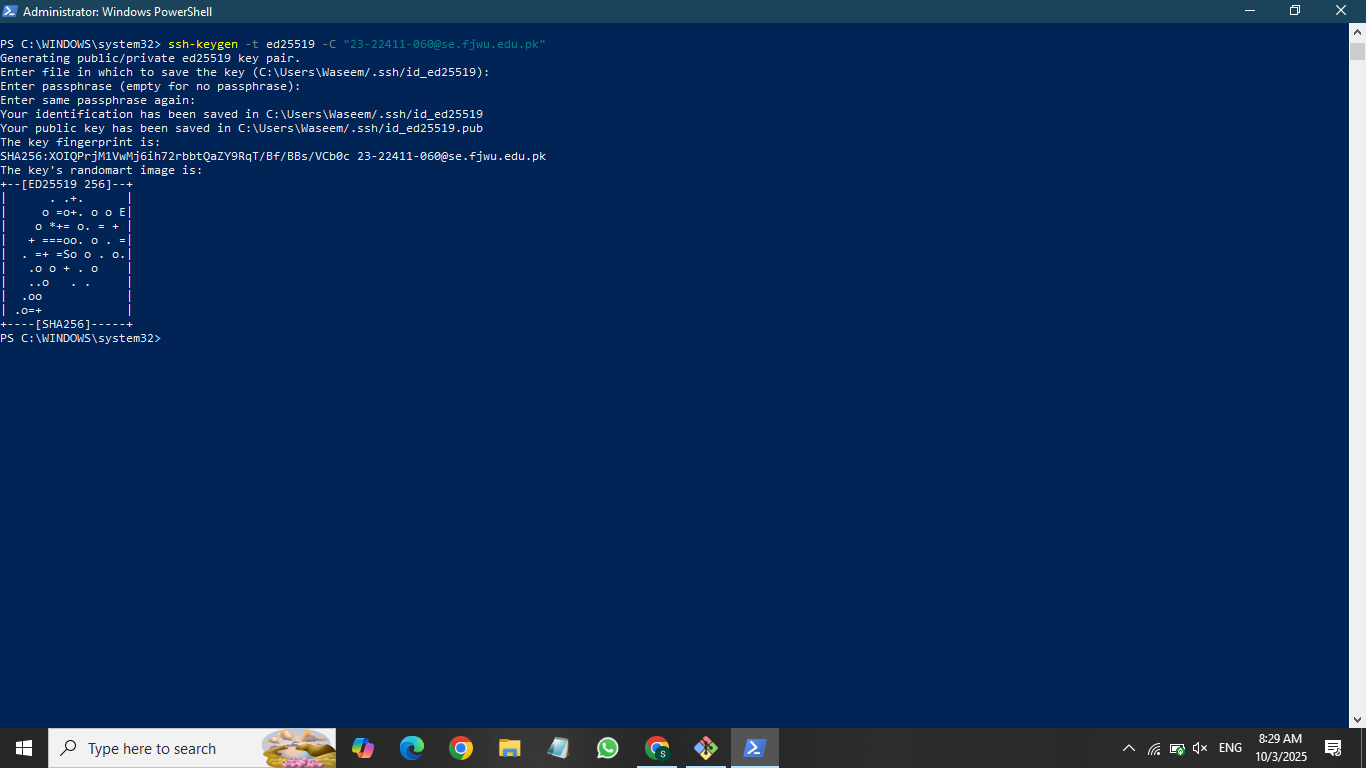
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**Task 1: Create Private GitHub Repository**



**Task 2: Connect Repository via SSH**



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**Task 3: Configure Git Username and Email**

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**Task 4: Explore the .git Folder**

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**Task 5: Local Repository Management**

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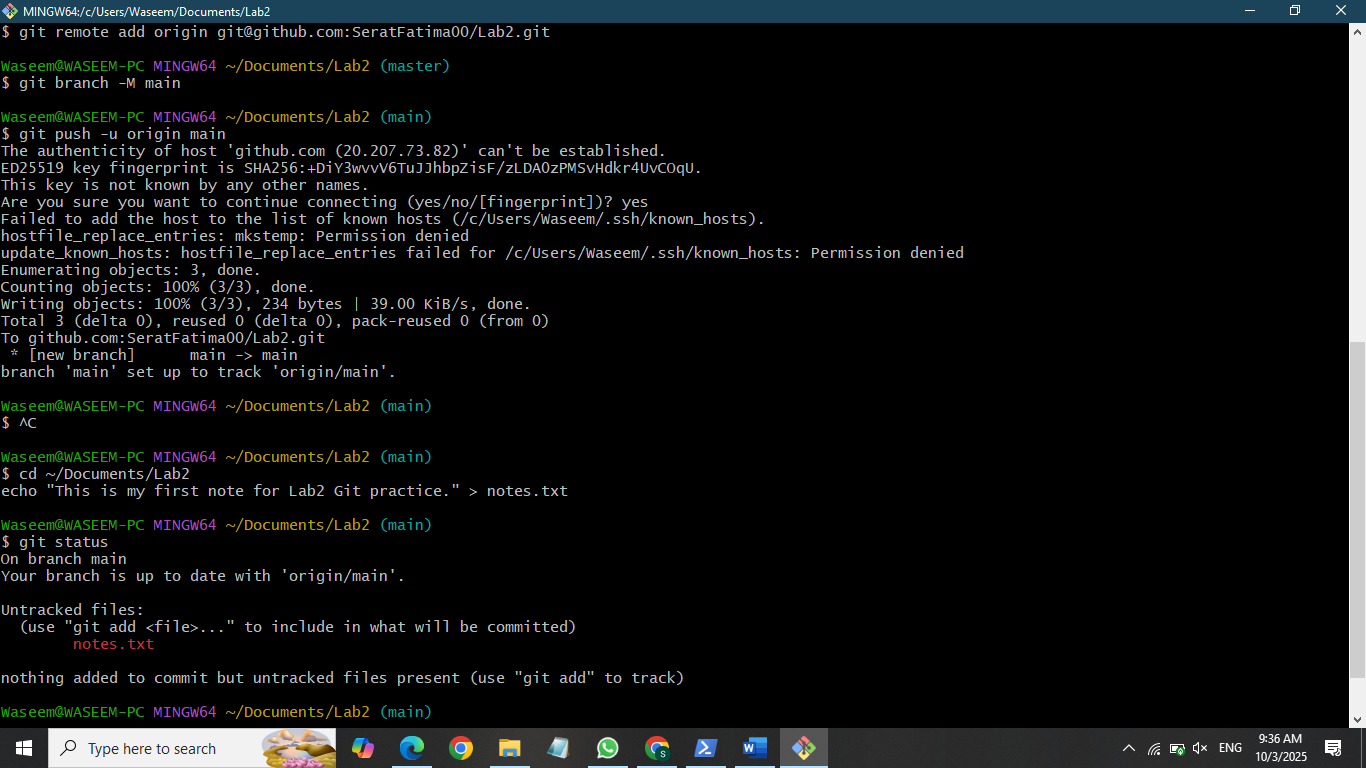
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**Task 6: File Status & Staging**

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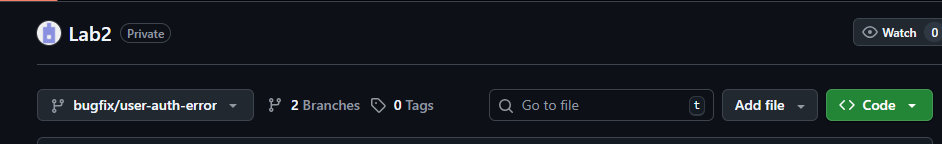
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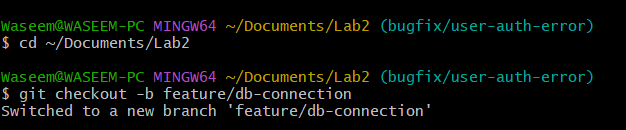
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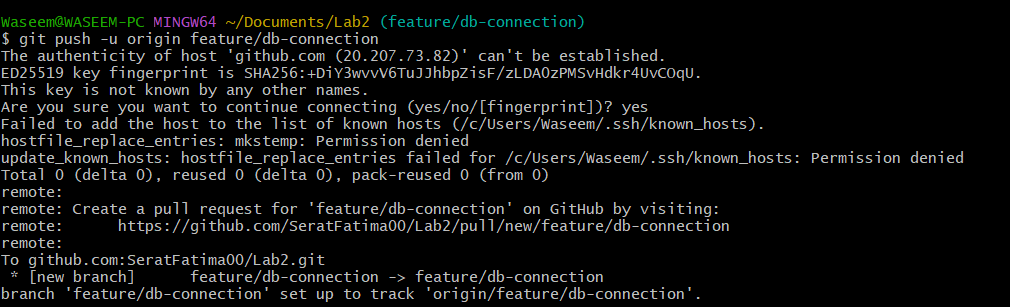
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**Task 7: Branch Creation Using GitHub GUI**

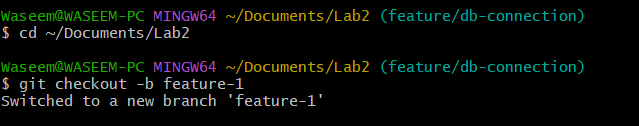


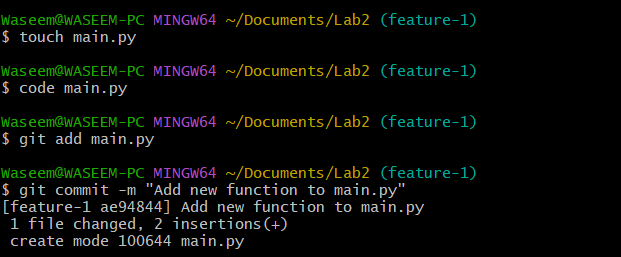
**Task 8: Branch Creation and Push Using Git Bash**

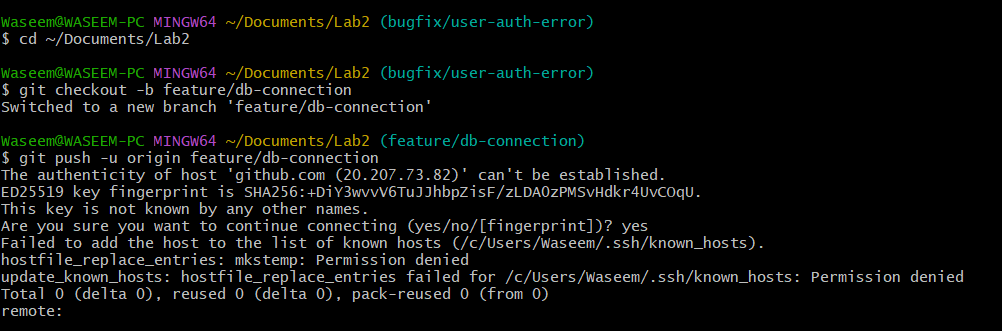




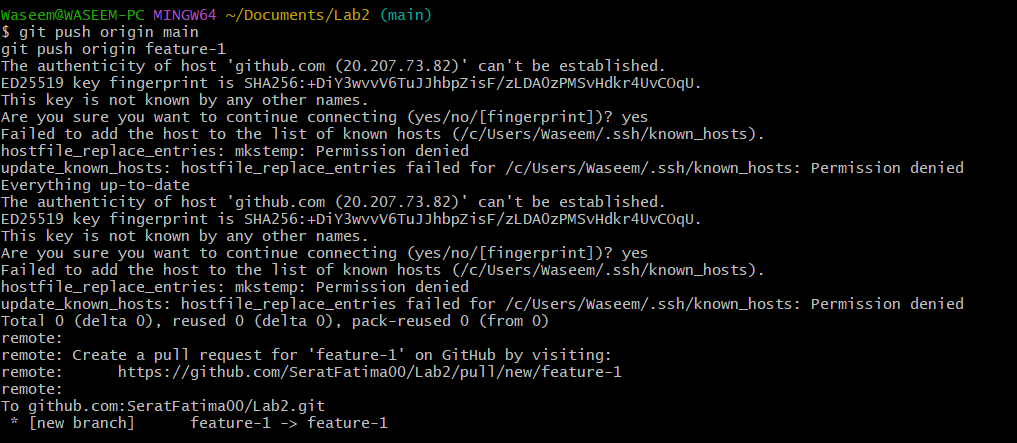
**Task 9: Branching & Merging**

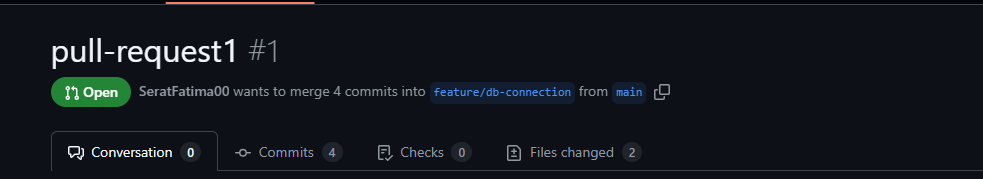


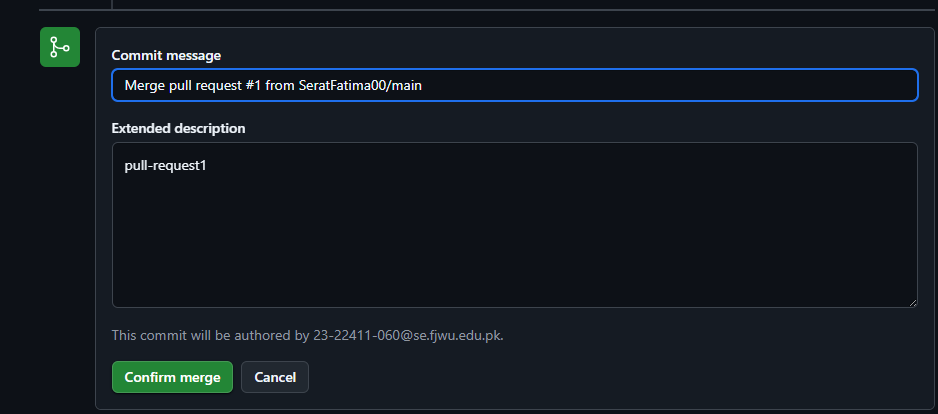


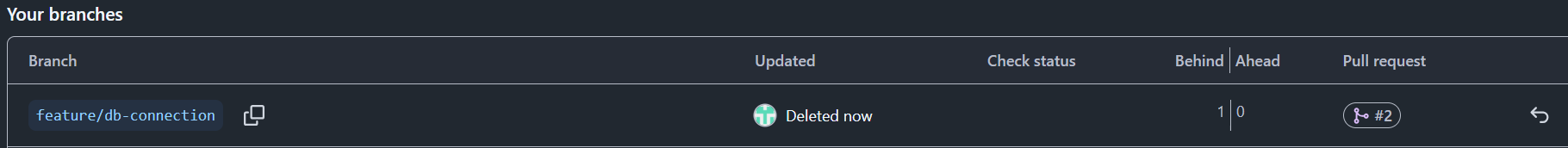


**Task 10: Pull Request and Branch Review (GitHub GUI)**







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**Task 11: Detailed Branch Strategy (Develop/Staging)**

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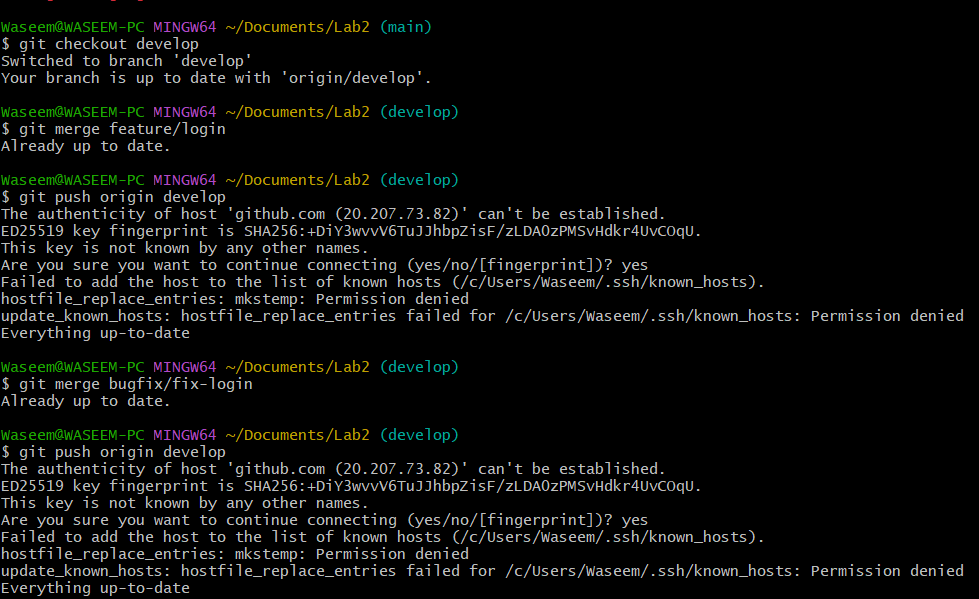
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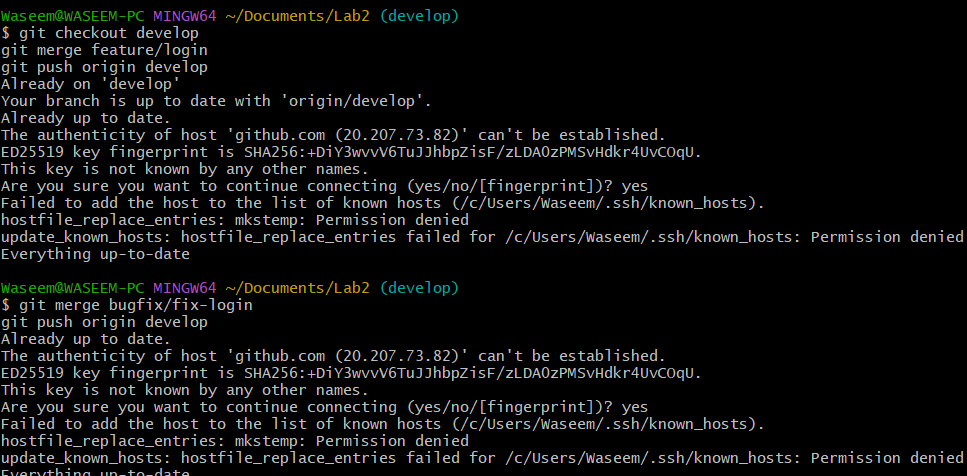
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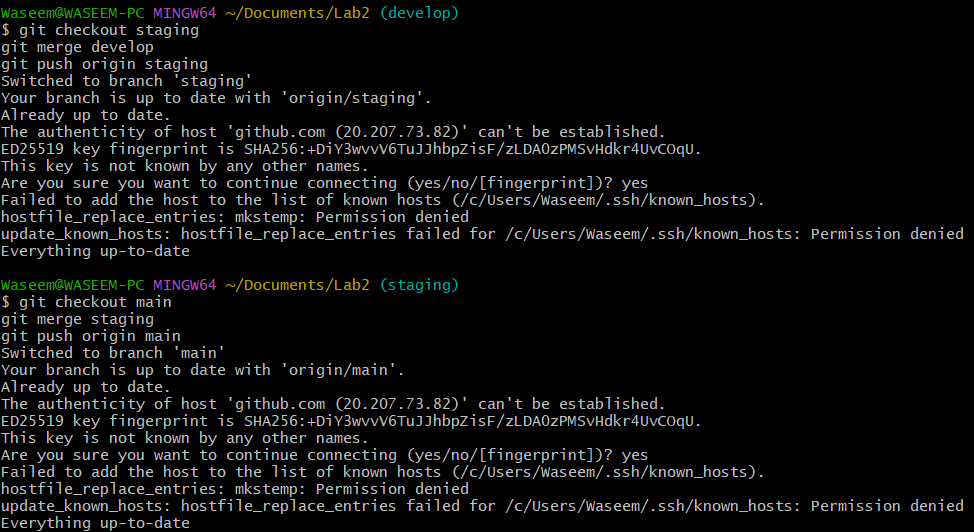
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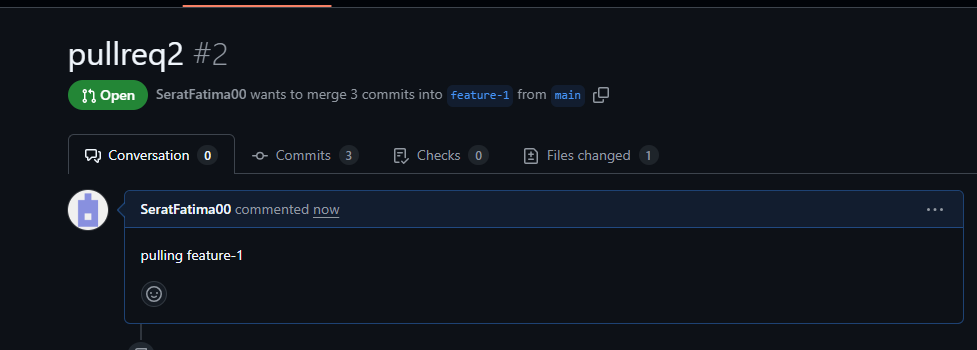
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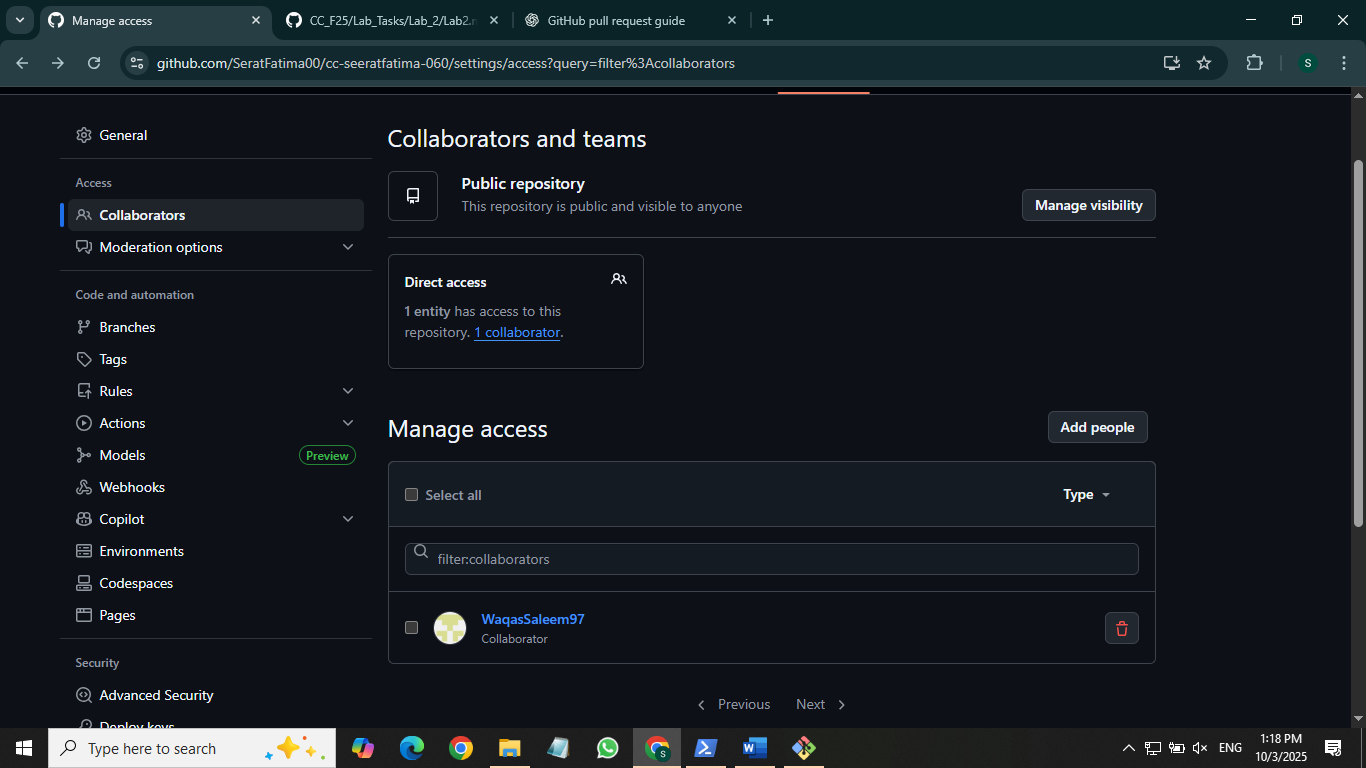






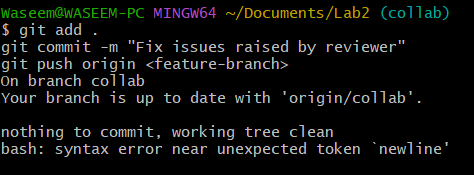
**Task 12: Code Review Workflow**

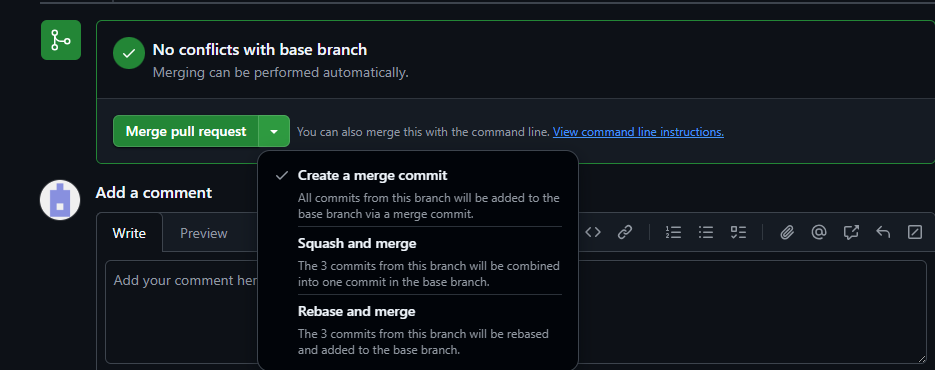




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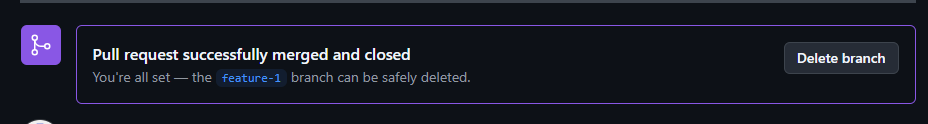




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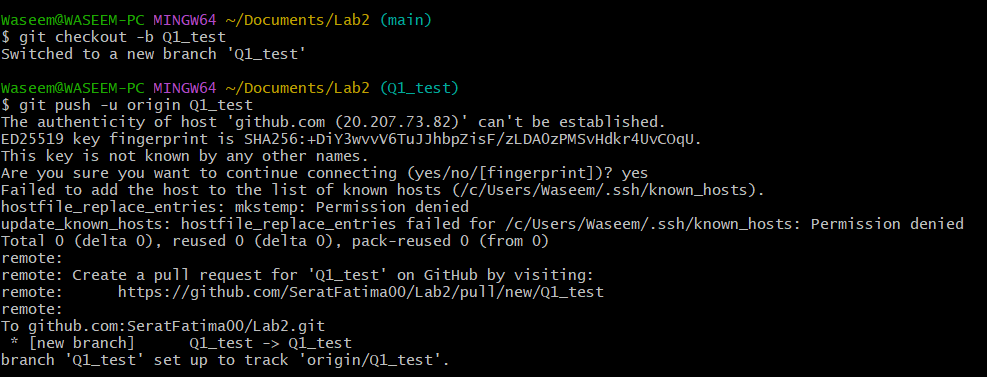
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**Task 13: Branch Cleanup Best Practices**

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**Exam Evaluation Questions**

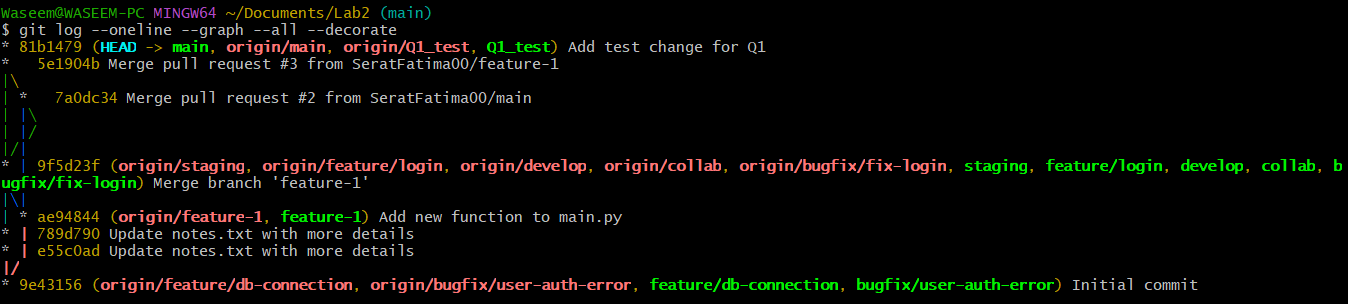
1. **Advanced Branching & Merge Verification**
   * **Create a new branch in your repository.**
     + **Screenshot as Q1\_branch\_created.png.**
   * **Make a small change in a file and commit it.**
     + **Screenshot as Q1\_commit\_done.png.**
   * **Merge this branch back into the main branch.**
     + **Screenshot as Q1\_merge\_done.png.**
   * **Show the history of commits in a way that verifies the merge.**
     + **Screenshot as Q1\_merge\_history.png.**

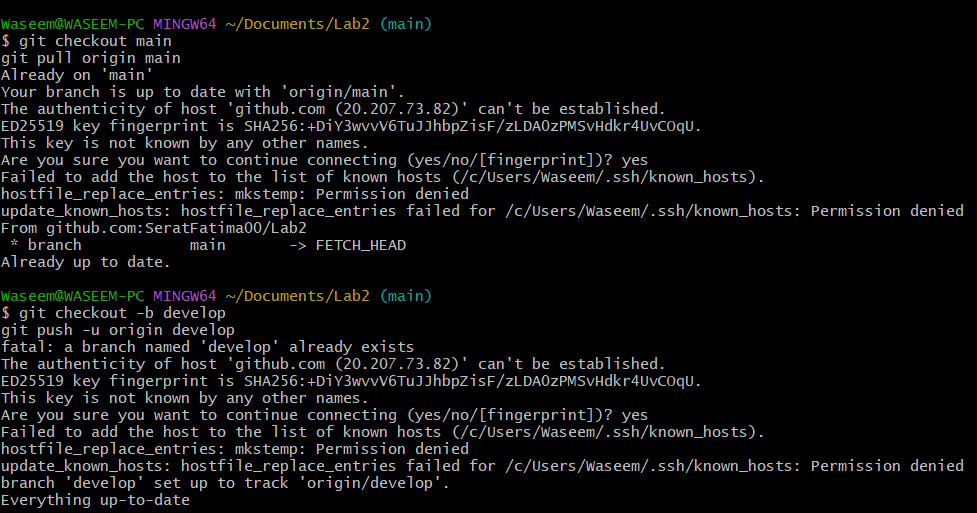


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1. **Multi-Stage Workflow Simulation**

Set up a branching workflow with three branches: main, develop, and staging.

Screenshot as Q2\_branches\_created.png.

Create a feature branch from develop, make changes, and commit them.

Screenshot as Q2\_feature\_branch\_commit.png.

Merge the feature branch into develop.

Screenshot as Q2\_merge\_into\_develop.png.

Merge develop into staging.

Screenshot as Q2\_merge\_into\_staging.png.

Merge staging into main.

Screenshot as Q2\_merge\_into\_main.png.

Provide proof that each stage contains the updated changes before it reaches main.

Screenshot as Q2\_stage\_verification.png.

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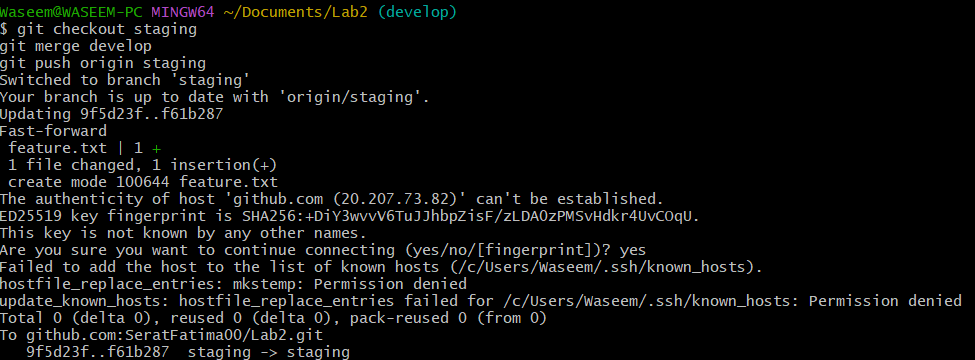
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