

Git Basics - Exam 2

Teacher: Aakanksha Baishwade

Sudent Name- Jayesh A. Wagh

Total Marks: 100

Submission Deadline: End of the Day

Section A: Multiple Choice Questions (50 Marks)

(Each question carries 5 marks)

1. Which command initializes a new Git repository?

- a) git init
- b) git start
- c) git new
- d) git create

Ans- a) git init

2. What is the purpose of the .gitignore file?

- a) To track all changes in the repository
- b) To ignore specific files or directories
- c) To delete unwanted files from the repository
- d) To push changes to a remote repository

Ans- b) To ignore specific files or directories

3. Which command stages changes for commit?

- a) git stage
- b) git add
- c) git commit
- d) git push

Ans- b) git add

4. What does the command git clone <repository> do?

- a) Creates a copy of the repository locally
- b) Deletes the repository
- c) Merges branches
- d) Pushes changes to the remote repository

Ans- a) Creates a copy of the repository locally

5. How do you view the commit history in Git?

- a) git status
- b) git log
- c) git history
- d) git show

Ans- b) git log

6. What is the purpose of the git pull command?

- a) To upload changes to the remote repository
- b) To fetch changes from the remote repository and merge them
- c) To initialize a new repository
- d) To delete a branch

Ans- **b) To fetch changes from the remote repository and merge them**

7. Which command creates a new branch in Git?

- a) git branch <branch_name>
- b) git new branch
- c) git init branch
- d) git create branch

Ans- **a) git branch <branch_name>**

8. How do you delete a branch locally?

- a) git remove branch <branch_name>
- b) git branch -d <branch_name>
- c) git delete <branch_name>
- d) git branch --delete

Ans- **b) git branch -d <branch_name>**

9. Which Git command is used to discard changes in the working directory?

- a) git reset
- b) git revert
- c) git checkout
- d) git clean

Ans - **d) git clean**

10. How do you push changes to a specific branch on a remote repository?

- a) git push origin <branch_name>
- b) git push <branch_name>
- c) git push remote <branch_name>
- d) git commit push <branch_name>

Ans - **a) git push origin <branch_name>**

Section B: Practical Task (50 Marks)

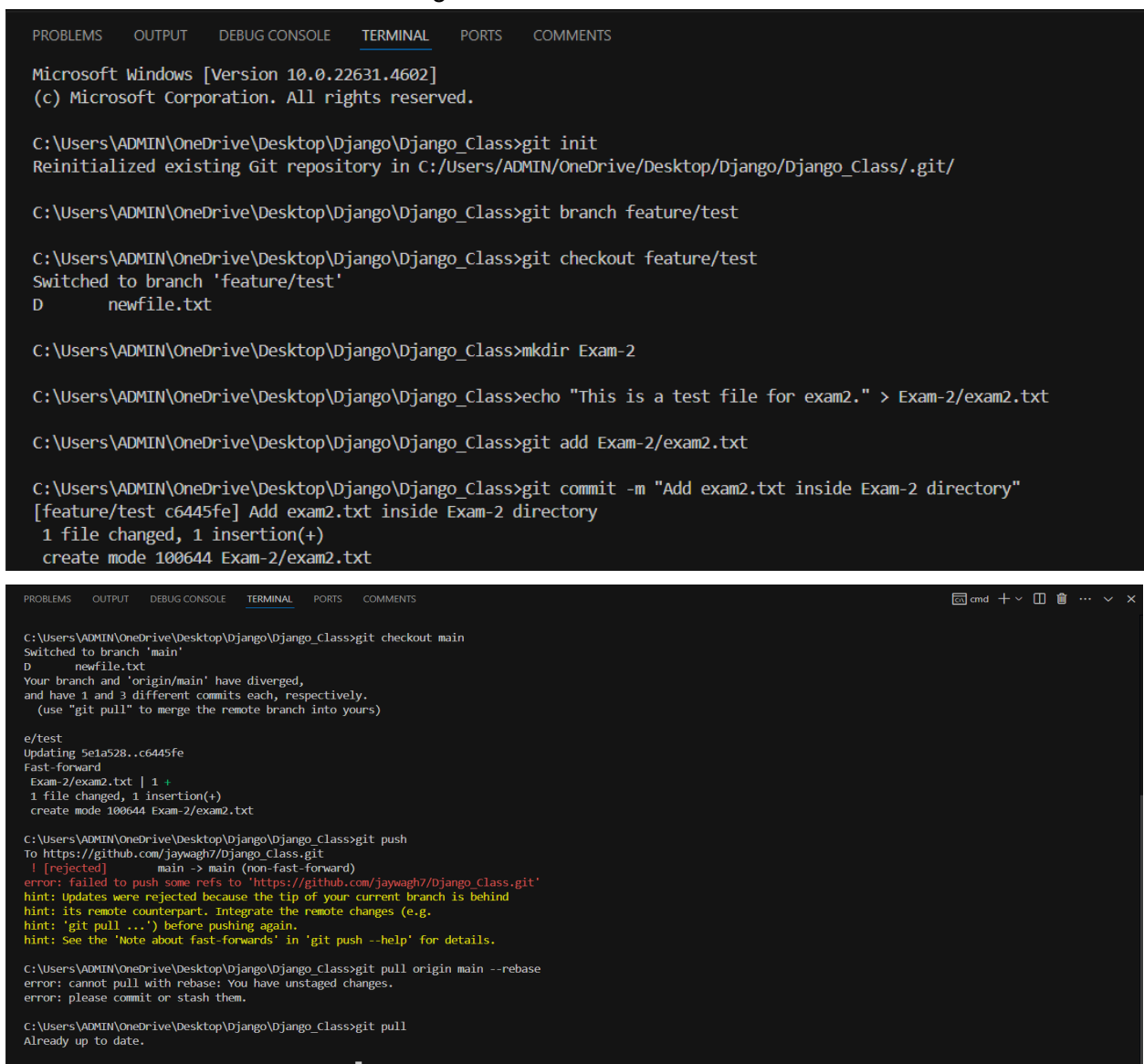
1. GitHub Profile Submission (30 Marks):

- Share screenshots of your GitHub profile, including:
- A public repository with meaningful commits and descriptions.
- A README file in one repository.
- Marks will be based on the quality and organization of your GitHub profile.

Git hub - <https://github.com/jaywagh7>

2. Practical Commands (20 Marks):

- Execute the following commands and submit a screenshot of the output:
- Initialize a new Git repository.
- Create a branch named feature/test.
- Add a file named exam2.txt and commit it.
- Switch to the main branch and merge feature/test into it.



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PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS COMMENTS
Microsoft Windows [Version 10.0.22631.4602]
(c) Microsoft Corporation. All rights reserved.

C:\Users\ADMIN\OneDrive\Desktop\Django\Django_Class>git init
Reinitialized existing Git repository in C:/Users/ADMIN/OneDrive/Desktop/Django/Django_Class/.git/

C:\Users\ADMIN\OneDrive\Desktop\Django\Django_Class>git branch feature/test

C:\Users\ADMIN\OneDrive\Desktop\Django\Django_Class>git checkout feature/test
Switched to branch 'feature/test'
D      newfile.txt

C:\Users\ADMIN\OneDrive\Desktop\Django\Django_Class>mkdir Exam-2

C:\Users\ADMIN\OneDrive\Desktop\Django\Django_Class>echo "This is a test file for exam2." > Exam-2/exam2.txt

C:\Users\ADMIN\OneDrive\Desktop\Django\Django_Class>git add Exam-2/exam2.txt

C:\Users\ADMIN\OneDrive\Desktop\Django\Django_Class>git commit -m "Add exam2.txt inside Exam-2 directory"
[feature/test c6445fe] Add exam2.txt inside Exam-2 directory
1 file changed, 1 insertion(+)
create mode 100644 Exam-2/exam2.txt

C:\Users\ADMIN\OneDrive\Desktop\Django\Django_Class>git checkout main
Switched to branch 'main'
D      newfile.txt
Your branch and 'origin/main' have diverged,
and have 1 and 3 different commits each, respectively.
(use "git pull" to merge the remote branch into yours)

e/test
Updating 5e1a528..c6445fe
Fast-forward
 Exam-2/exam2.txt | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 Exam-2/exam2.txt

C:\Users\ADMIN\OneDrive\Desktop\Django\Django_Class>git push
To https://github.com/jaywagh7/Django_Class.git
 ! [rejected]        main -> main (non-fast-forward)
error: failed to push some refs to 'https://github.com/jaywagh7/Django_Class.git'
hint: Updates were rejected because the tip of your current branch is behind
hint: its remote counterpart. Integrate the remote changes (e.g.
hint: 'git pull ...') before pushing again.
hint: See the 'Note about fast-forwards' in 'git push --help' for details.

C:\Users\ADMIN\OneDrive\Desktop\Django\Django_Class>git pull origin main --rebase
error: cannot pull with rebase: You have unstaged changes.
error: please commit or stash them.

C:\Users\ADMIN\OneDrive\Desktop\Django\Django_Class>git pull
Already up to date.
```