

## GitHub Fundamentals Worksheet for Developers

Name \_\_\_\_\_

Score: \_\_\_\_\_ / 100

### Part A: Fill in the Blanks (20 Points)

Complete each sentence using the correct GitHub term from the word bank.

#### Word Bank

- Commit • Repository • Branch • Clone • Merge • README • Fork • Push • Issue
- Pull Request

1. A \_\_\_\_\_ is a storage location where project files and code are kept.
2. A \_\_\_\_\_ records changes made to files in a project.
3. A \_\_\_\_\_ allows developers to work on new features without affecting the main code.
4. A \_\_\_\_\_ is used to propose changes before integrating them into the main branch.
5. To copy a remote repository to your local computer, you use \_\_\_\_\_.
6. When combining changes from different branches, you perform a \_\_\_\_\_.
7. A \_\_\_\_\_ creates a personal copy of another developer's repository.
8. To upload local changes to GitHub, you use the command \_\_\_\_\_.
9. A \_\_\_\_\_ file usually contains project information and instructions.
10. An \_\_\_\_\_ is used to track bugs, improvements, or tasks.

### Part C: Fill in the Commands (20 Points)

Complete the Git commands.

1. Initialize a repository:

git \_\_\_\_\_

2. Check repository status:

git \_\_\_\_\_

3. Add all files:

git \_\_\_\_\_ .

4. Save changes:

git \_\_\_\_\_ -m "message"

5. Upload changes:

git \_\_\_\_\_ origin main

6. Download a repository:

git \_\_\_\_\_ <repository-url>

7. Create a new branch:

git \_\_\_\_\_ feature-login

8. Switch branches:

git \_\_\_\_\_ feature-login

9. View commit history:

git \_\_\_\_\_

10. Download latest changes:

git \_\_\_\_\_

#### **Part D: Match the GitHub Feature (20 Points)**

Match each feature with its purpose.

<b>Feature</b>	<b>Purpose</b>
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- |             |                                 |
|-------------|---------------------------------|
| 1. Issues   | A. Documentation                |
| 2. Actions  | B. Project automation and CI/CD |
| 3. README   | C. Track bugs and tasks         |
| 4. Wiki     | D. Project knowledge base       |
| 5. Projects | E. Organize work with boards    |

Answers:

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_

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**Part E: Scenario-Based Questions (20 Points)**

Choose the best GitHub concept for each situation.

1. You want to suggest changes to another developer's project.

\_\_\_\_\_

2. You need to work on a feature without affecting the main code.

\_\_\_\_\_

3. Your team wants to track a bug found by users.

\_\_\_\_\_

4. You want to automate testing whenever code is pushed.

\_\_\_\_\_

5. You need to copy a repository from GitHub to your computer.

\_\_\_\_\_

\_\_\_\_\_