

## Exercise 1: Solutions

### 1 Introduction to Git and GitHub

In the following, we provide the git commands necessary to complete the tasks from the exercise sheet.

#### 1.1 Git Fundamentals

1. `git config --global user.name "John Doe"`  
`git config --global user.email mail@example.com`
2. `git init`
3. `git add filename`  
`git status`
4. `git commit -m "initial commit"`  
`git status`  
`git log`
5. `git status`  
`git diff`  
`git add`
6. `git restore --staged filename`  
`git restore filename`
7. `git add filename`  
`git commit -m "second commit"`  
`git reset --soft HEAD~1`  
`git add filename`  
`git commit -m "second commit".`
8. Add logs/ to the .gitignore file.  
`git add .gitignore`  
`git commit -m "creates .gitignore file"`

#### 1.2 GitHub

1. `git remote add origin https://github.com/username/repository-name.git`  
`git branch -M main`  
`git push -u origin main`
2. `git pull`
3. `git add filename`  
`git commit -m "local change"`  
`git push`

```
4. git add filename  
   git commit -m "local merge conflict"  
   git pull
```

Decide on the changes you want to keep and delete the merge conflict markers.

```
git add filename git commit -m "solves merge conflict" git push
```

## **2 Getting Started with R Markdown**

You can find the completed R Markdown file `intro-to-rmarkdown_solution.Rmd` in moodle.