

## Submitting Assignments using Git and Github

You will submit your lab assignments to your Github account. For all your assignments please do:

1. Make the repository public (unless instructor tells you to make it private).
2. Add a `.gitignore` file in your project folder and edit this file to ignore Java `*.class` files

### Example

Suppose your local project is named **converter**, but the instructor wants you to commit to Github as a project named **"lab9"**. Follow these steps.

### Create a Local Repository for your Project

1. Change directory to your project directory (`converter`) and create a new Git project

```
cmd> cd workspace/converter
```

```
cmd> git init
```

2. Create or copy a `.gitignore` file to ignore unwanted files (these files won't be committed to Git):

```
> edit .gitignore
```

```
# add these lines to ignore Java output files and tmp files
```

```
bin/
```

```
build/
```

```
*.class
```

```
*.tmp
```

```
# Ignore Eclipse project files (comment out if you want these in git)
```

```
.settings/
```

```
.project
```

```
.classpath
```

3. Github and Bitbucket recommend you create a **README.md** file describing your project. It makes your work look more professional.

```
cmd> echo "# Distance Converter Lab for OOP" > README.md
```

4. Commit your source code (the `src` directory) and the above files to the local repository.

```
cmd> git add src .gitignore README.md
```

```
cmd> git commit -m "initial checkin"
```

```
cmd> git status
```

On branch master. nothing to commit.

### Create an Empty Github Repository

5. Login to your Github account and click on the "+" on upper right of window to create a repository.

5.a Name the repository "lab9" (the name the instructor wants). Note that the Github repo name can be different from your local project name.

5.b **Leave the repository empty.** Don't let Github create a README or `.gitignore` for you in this case.

5.c Note the instructions shown by Github for how to add Github as "remote" to your local repository.

### In Your Local Repository, Add a "remote" and Push

6. Back in the command window in your project directory, add Github as a remote and push:

```
cmd> git remote add origin https://github.com/b58101234/lab9.git
```

```
cmd> git push -u origin master
```

After the first "push", you can type only "git push" to push to the remote repository.