Git and GitHub inside RStudio

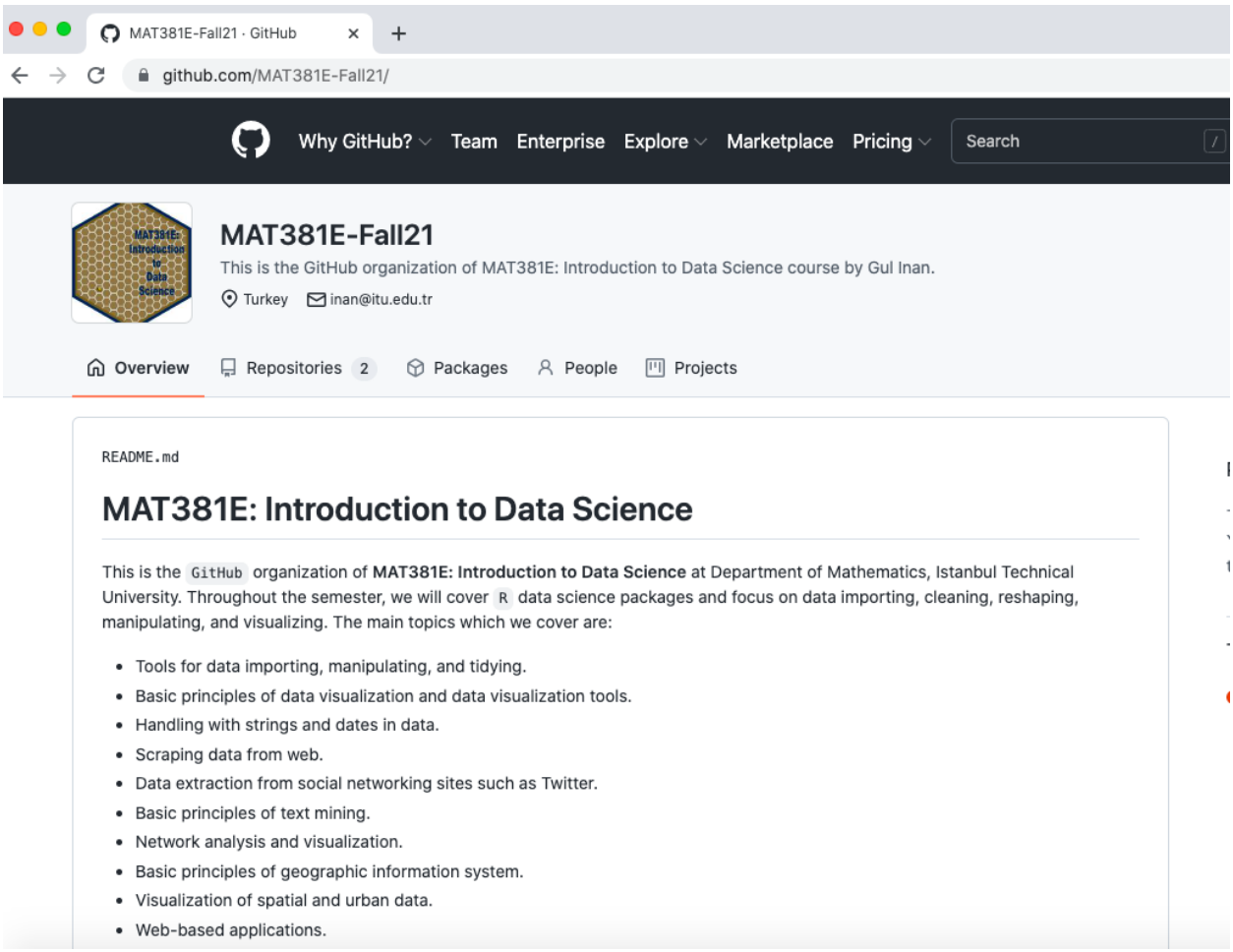
Fall 2021

We will be using `git` and `GitHub` to get send your individual-based and team-based studies and get them back. In this short tutorial, we will show you the process using `git` and `GitHub` through `RStudio`. For that reason you have to install `git` (the one most suitable for your operating system), introduce your `GitHub` account to your local `git`, and make sure `RStudio` can talk to local `git` (and, therefore, `GitHub`). If you need assistance, I strongly suggest you to take a look at the following great sources:

`https://happygitwithr.com/ and`

`https://ourcodingclub.github.io/tutorials/git/.`

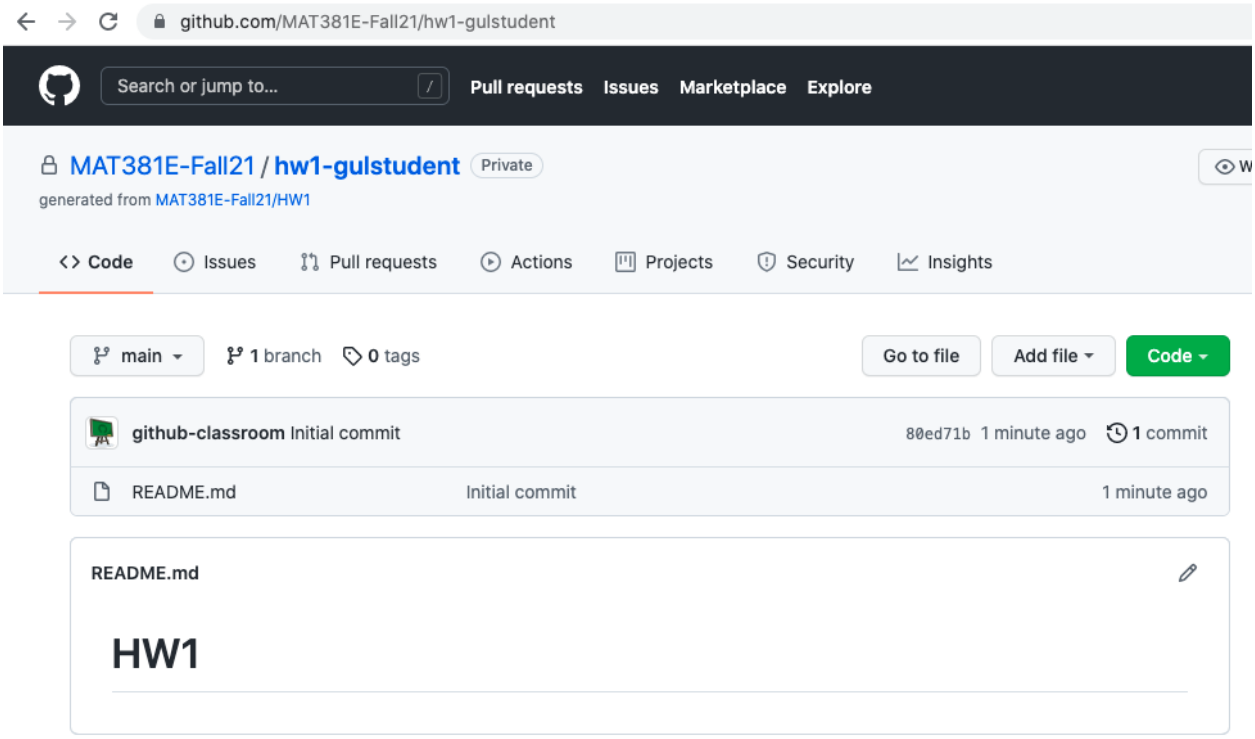
We will create all individual-based and team-based assignments in `GitHub` classroom of `MAT381E-Fall21` organization.

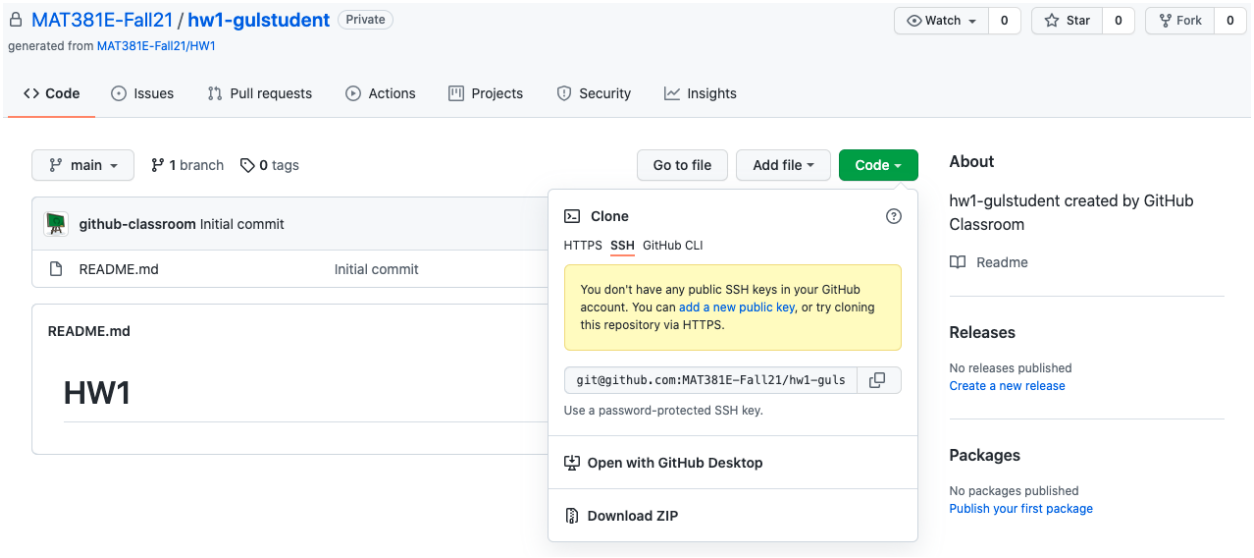


Afterwards, we will send out you the assignment invitation links to you via Ninova announcements so that you can join the assignment (you have to accept the invitation to see the assignment repo under `MAT381E-Fall21` organization). Once you accept the invitation, you will see that **you have a repository under `MAT381E-Fall21` organization for the relevant assignment**. For example `<HW1-yourusername` for Homework 1. Please see my fake student repo for HW 1.

Throughout the semester you will be an **outside collaborator** of `MAT381E-Fall21` organization on GitHub, not a member. This means that you can only see your repository under `MAT381E-Fall21` organization, whereas I can see all the repositories.

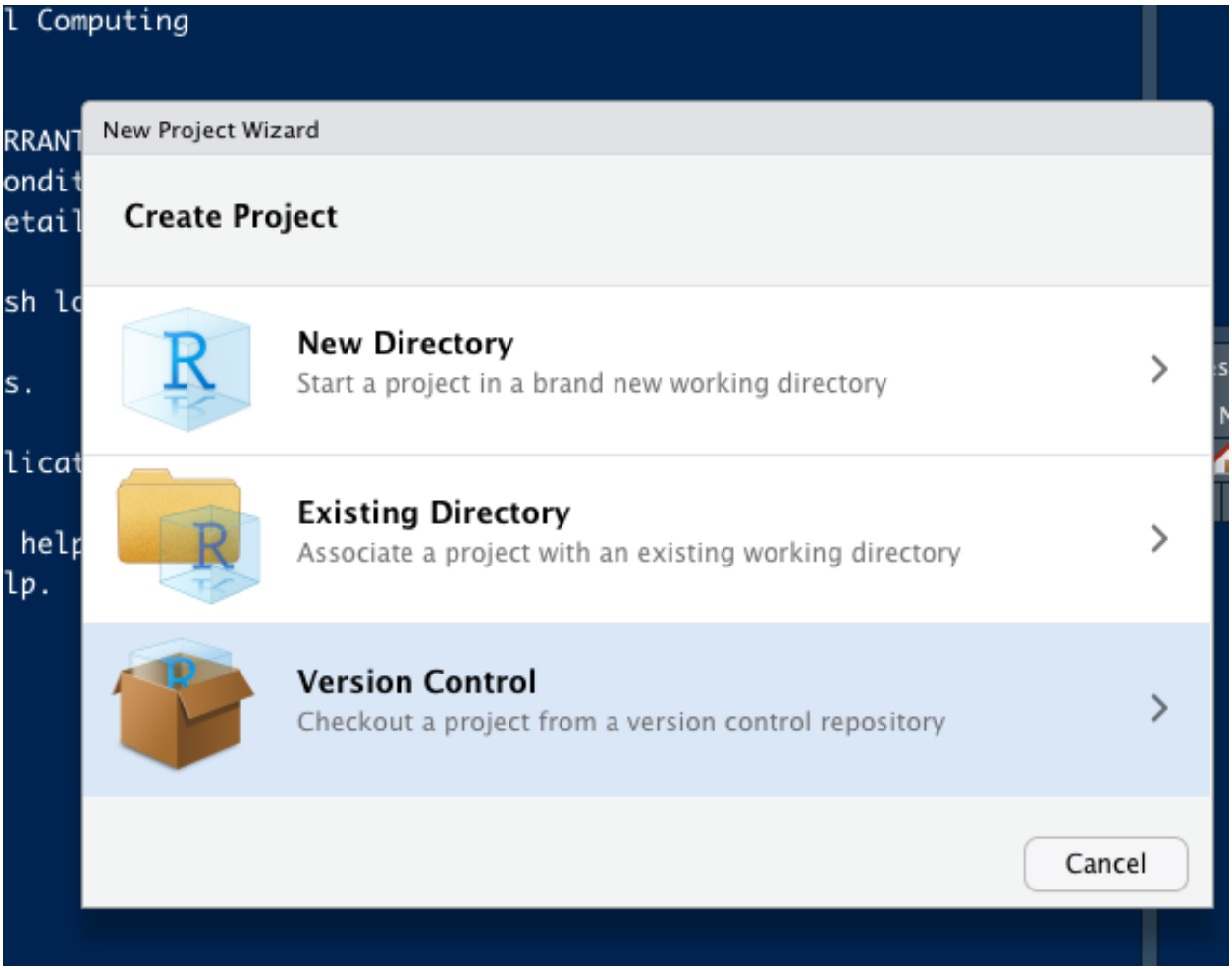
In the "repository URL", copy the SSH URL of the assignment as shown below (in my fake account, i did not take SSH key, but you should do, otherwise you cannot commit and push your work from R Studio to GitHub) :



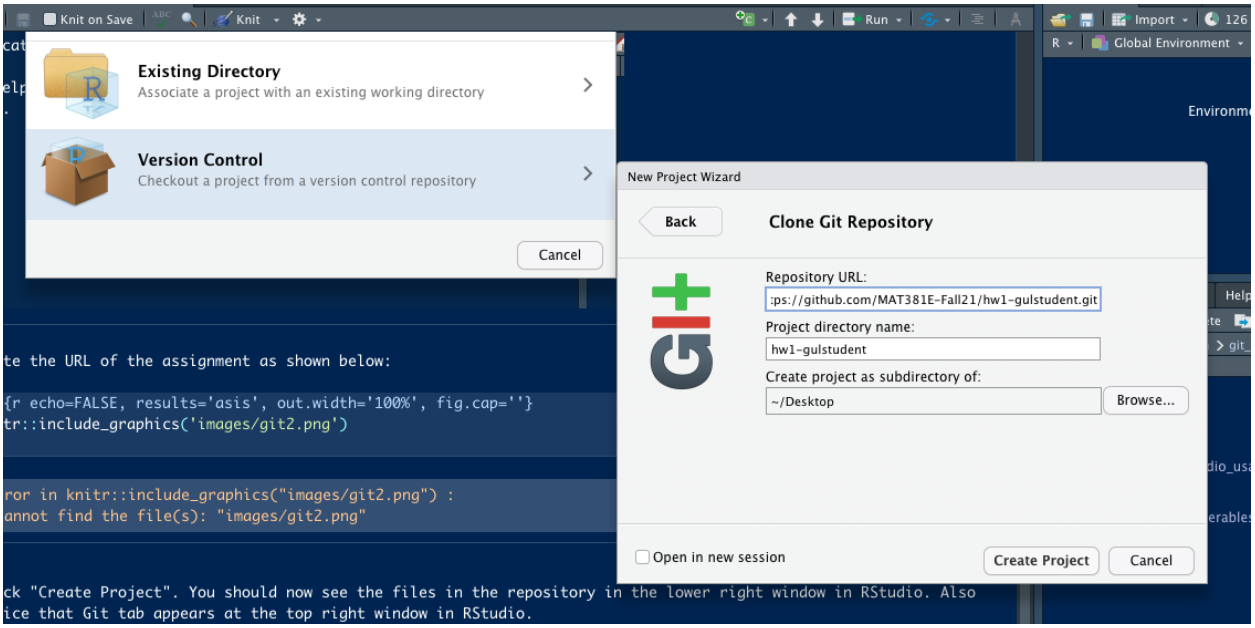


Then, in RStudio, start a new project:

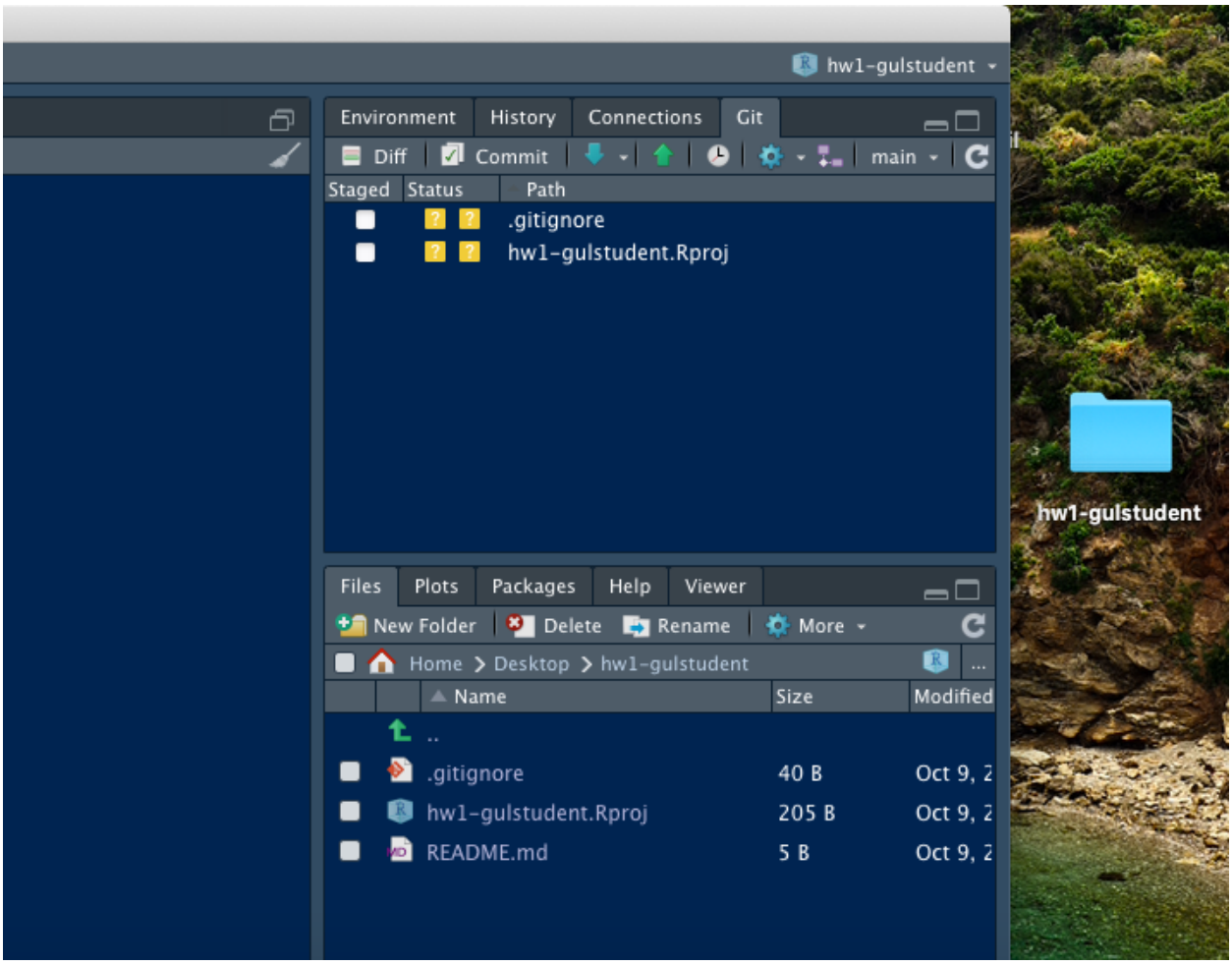
`File > New Project > Version Control > Git`



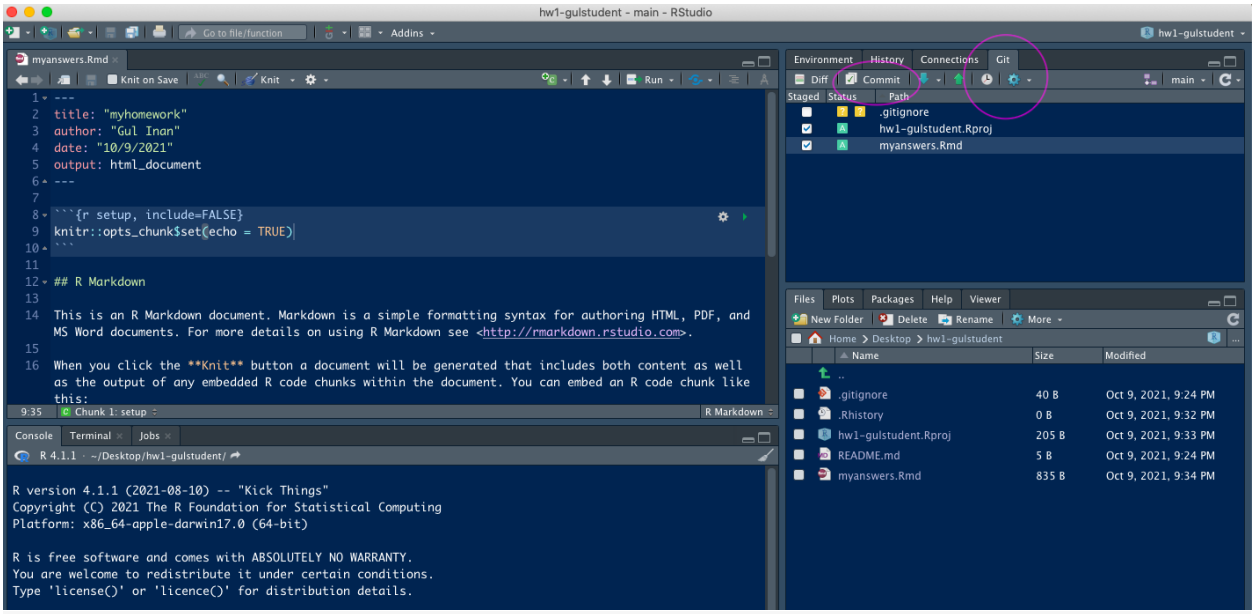
Paste the URL of the assignment as shown below:



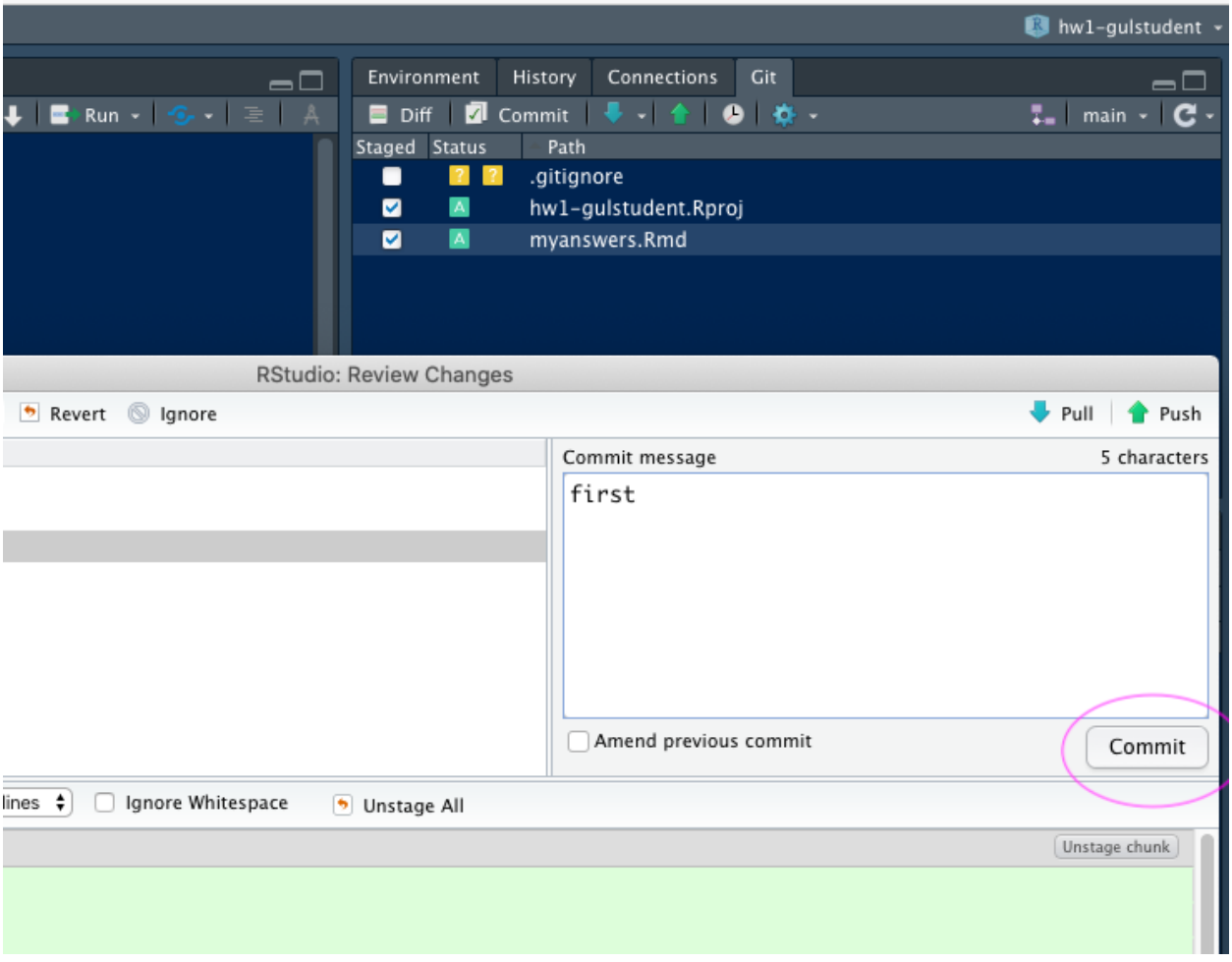
Click "Create Project". You should now see the files in the repository in the lower right window in RStudio. Also notice that Git tab appears at the top right window in RStudio.



Now, you have a local copy of your assignment. Work on it. Do whatever you need. You can use Git tab to `commit` and `push`.


hw1-gulstudent - main - RStudio
myanswers.Rmd
Knit on Save
Knit
Run
Environment
History
Connections
Git
Diff
Commit
main
Staged
Status
Path
.gitignore
hw1-gulstudent.Rproj
myanswers.Rmd
---
title: "myhomework"
author: "Gul Inan"
date: "10/9/2021"
output: html_document

```{r setup, include=FALSE}
knitr::opts_chunk$set(echo = TRUE)
```
R Markdown
This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see <http://rmarkdown.rstudio.com>.
When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:
Files
Plots
Packages
Help
Viewer
New Folder
Delete
Rename
More
Home > Desktop > hw1-gulstudent
Name
Size
Modified
.gitignore 40 B Oct 9, 2021, 9:24 PM
.Rhistory 0 B Oct 9, 2021, 9:32 PM
hw1-gulstudent.Rproj 205 B Oct 9, 2021, 9:33 PM
README.md 5 B Oct 9, 2021, 9:24 PM
myanswers.Rmd 835 B Oct 9, 2021, 9:34 PM
Console
Terminal
Jobs
R 4.1.1 · ~/Desktop/hw1-gulstudent/
R version 4.1.1 (2021-08-10) -- "Kick Things"
Copyright (C) 2021 The R Foundation for Statistical Computing
Platform: x86_64-apple-darwin17.0 (64-bit)
R is free software and comes with ABSOLUTELY NO WARRANTY.
You are welcome to redistribute it under certain conditions.
Type 'license()' or 'licence()' for distribution details.


hw1-gulstudent
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Staged
Status
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.gitignore
hw1-gulstudent.Rproj
myanswers.Rmd
RStudio: Review Changes
Revert
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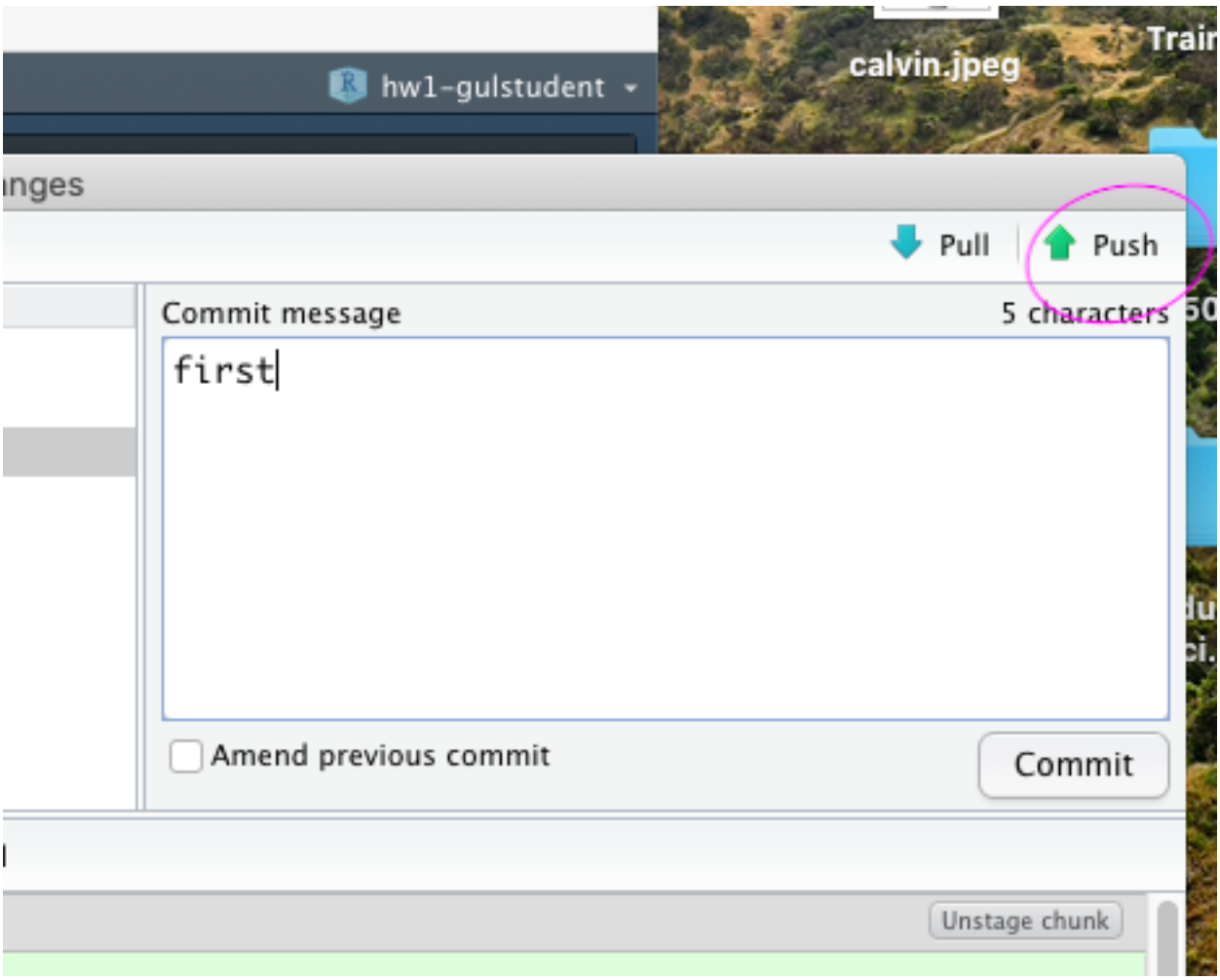
Pull
Push
Commit message
5 characters
first
Amend previous commit
Commit
Ignore Whitespace
Unstage All
Unstage chunk



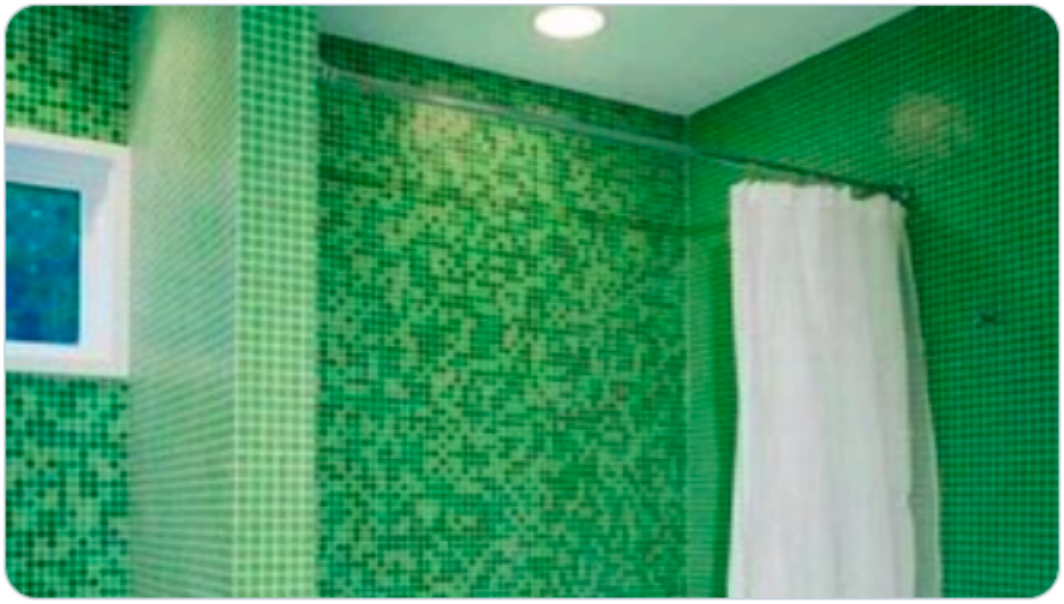
Check back your repository on GitHub!..Always send your assignments on time!..(In the terminal window, use git commands `commit` and `push` to send the changes you have done to your local repository to GitHub.)

Wish you a productive semester!..

GitHub Retweetledi

Hello World Programmer @helloworldprog · 2 Şub

Github commit history goals 2021



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