**Creating 2 repositories**

Log in to <https://gitlab.mcs.sdsmt.edu>

Create 2 repositories – click “New Project” or “Create a project”

1 repository named **csc215s18programs**

Click the orange fox in the upper left, then click “New Project”

1 repository named **csc215s18homeworks**

**Initialize 2 local git repositories using Visual Studio**

Open visual studio (leave browser open)

Click on the team Explorer Tab and then the “Manage Connections” Icon (looks like electrical plug)

1. Select “new” from the local git repository drop down

Change the “NewRepo” to the name **csc215s18programs**

Final path should be “C:\users\yourid\source\repos\csc215s18programs” with “yourid” being your id

Click create.

1. Select “new” from the local git repository drop down

Change the “NewRepo” to the name **csc215s18homeworks**

Final path should be “C:\users\yourid\source\repos\csc215s18homeworks” with “yourid” being your id

Click create.

**Edit the repository settings for csc215s18homeworks**

Right click the csc215s18homeworks solution underneath the “Local Git Repositories” title and select “open”

Click the Settings Gear. If not visible, click the home icon.

Click Repository settings.

Underneath the title “Ignore & Attributes files” click the edit link next to .gitignore

Scroll the bottom of the file in the right editor pane and add the following lines.

**# CSC215 Custom Ignored files and directories**

**html/**

**\*.txt**

**\*.dat**

**\*.bin**

Save this file

**Commit the changes locally**

Click the home icon on team explorer, then click the changes icon (looks like a clock)

Under the Changes title, right click the .gitignore and select stage. Make sure you are not in the staged changes title.

Enter a commit message of “Set up initial homework repository and added excludes for html, .txt, .dat & .bin”

Then Click the commit Staged button.

**Push to the remote repository**

Click the home icon, then click the Sync link. (looks like 2 arrows up and down)

Under the push to remote repository, click the “Publish Git Repo” button.

In the text box that pops up, enter the url for your homework repository on the remote server

Goto your browser that is opened to gitlab.mcs.sdsmt.edu

Click the orange fox in the upper left corner.

Click the project name of csc215s18homework.

Click the copy to clipboard button just to the left of the url in the center.

Go back to visual studio and paste into the textbox and click publish.

If a dialog box opens asking for your credentials, use your school userid and password.

If you want, you can refresh the page in your browser and verify you have the .gitignore & .gitattributes files exist by clicking “Repositories” 🡪 “Files”

**Create your first Visual Studio Solution, commit and push to the remote repo.**

I have had problems with this step unless you close and reopen Visual Studio.

On the main menu, click “File” 🡪 “New” 🡪 “Project”

Under the label “Visual C++” “Windows Desktop”, select “Windows Desktop Wizard”

Name: hw1

Location: c:\users\yourid\source\repos\csc215s18homeworks

(use the browse button and navigate to this directory & click “Select Folder”)

Uncheck Create Directory for solution

Uncheck Create new Git repository (we already have a repository)

Click OK

In the dialog box that pops up:

Uncheck Security Development Lifecycle

Uncheck Precompiled Header

Check Empty Project.

Click OK

**Add a Source file to the project:**

In the solution explorer tab:

Right click source files, “add” 🡪”New item”.

Select C++ File:

Provide the following.

Name: hw1.cpp

Make sure location is in the csc215s18homeworks repository.

C:\users\yourid\source\repos\csc215s18homeworks\hw1

Click Add.

Add the following code to the text file. Save, build the solution, run the program.

#include <iostream>

using namespace std;

int main()

{

cout << “Hello Git” << endl;

return 0;

}

**Commit the changes to the local repository.**

Click the team explorer tab

Click the home icon (looks like a house)

Click the changes icon (looks like a clock)

You should have 4 changes to be committed locally.

Add a commit message of: “HW1 - Got hello git working”

Click “Commit All”

**Complete the next task.**

Add a function below main that will output your name to the screen, provide the prototype, and function call after the cout statement in main.

#include <iostream>

using namespace std;

void part2();

int main()

{

cout << “Hello Git” << endl;

part2();

return 0;

}

void part2()

{

cout << “My name is Roger Schrader” << endl;

}

Substitute your name for my name.

Save, build the solution, and run the program

**Commit the changes to the local repository.**

Click the team explorer tab

Click the home icon

Click the changes icon (looks like a clock)

You should have 1 changes to be committed locally. This is the hw1.cpp file

Add a commit message of: “HW1 – Introduced myself to git”

Click “Commit All”

**Push to the Remote Repository**

Click the team explorer tab. Then click the sync icon. (Looks like 2 arrows up & down)

Verify you have two commits to be pushed to the remote server

Click the sync link under the synchronization title near the top of the pane.

**Verify the push worked**

Go back to your browser that is logged in on gitlab.mcs.sdsmt.edu

Refresh the project page for csc215s18homeworks

Click the links “repository” 🡪 “files”.

You should see your hw1 directory and both file (.gitignore & .gitattributes)

Click the hw1 directory.

You should see 4 files (hw1.sln, hw1.vcxproj, hw1.vcxproj.filters, & hw1.cpp)

**On your own time.**

**Click team explorer tab**

**Click “Manage Connections” (looks like outlet plug)**

**Using the csc215s18programs repository, Repeat the following sections**

**Edit the repository settings for csc215s18homeworks using csc215s18programs**

**Commit the changes locally**

**Push to the remote repository**

**Link to the csc215s18programs repository on gitlab.mcs.sdsmt.edu**

You are now ready to create prog1 inside this directory when it is assigned.

**Notes:**

To do Homework 2, you would create a project named hw2 within the csc215s18homework directory just like you created the hw1 project. To turn it in. You just need to commit to the local repository, then push to the remote server.

To do program1, you would create a project named prog1 within the csc215s18programs directory just like you created the hw1 project. To turn it in. you just need to commit to the local repository and then push to the remote server. I expect to see pushes to the server all throughout the time period. An absence of commits/pushes will cause slight reductions in the overall grade.