

**Git/GitHub 2**

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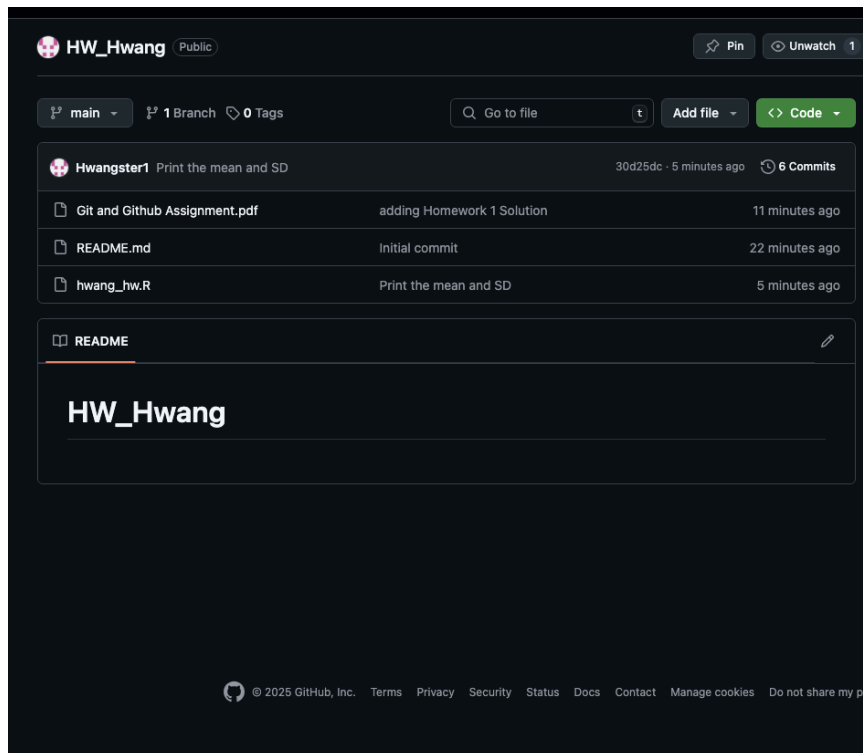
**[https://github.com/Hwangster1/HW\\_Hwang](https://github.com/Hwangster1/HW_Hwang)**

## 1. Task 1: Create a GitHub Repository (10 points)

### ○ Points: 10

- Repository created correctly and named according to instructions (5 points).
- Repository cloned to local machine using Git Bash terminal or Git client (5 points).

Here I created a repository named HW\_Hwang



In VSC I used git clone to clone the repository.

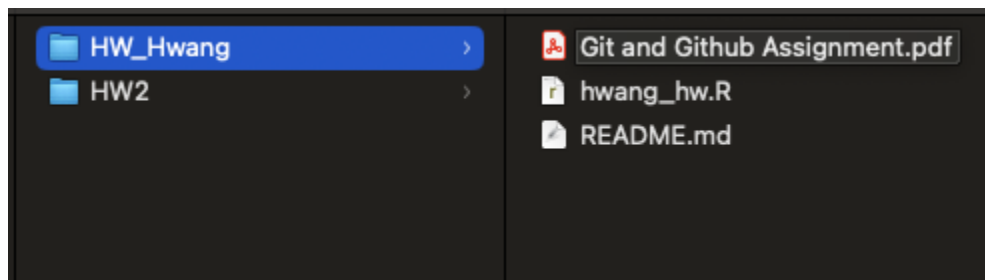
```
andrewhwang@andrews-mbp-2 git % git clone git@github.com:Hwangster1/HW_Hwang.git
Cloning into 'HW_Hwang'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (3/3), done.
andrewhwang@andrews-mbp-2 git % ls
```

## 2. Task 2: Add Homework 1 Solution (15 points)

### ○ Points: 15

- Homework solution (from last week) copied to local working directory correctly (5 points).
- Proper use of `git add <filename>` and `git commit -m` for adding the solution (5 points).
- Correct use of `git push` to push the file to GitHub repository (5 points).

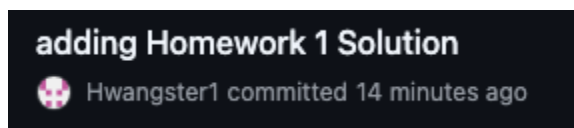
Here I copied over the homework solution from last week, and copied it to my working directory.



I used git add, commit, and push correctly.

```
andrewhwang@andrews-mbp-2 hw_hwang % git add "Git and Github Assignment.pdf"
andrewhwang@andrews-mbp-2 hw_hwang % git commit -m "adding Homework 1 Solution"
[main 1385cfd] adding Homework 1 Solution
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 Git and Github Assignment.pdf
andrewhwang@andrews-mbp-2 hw_hwang % git push
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 12 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 462.20 KiB | 19.26 MiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To github.com:Hwangster1/HW_Hwang.git
73fcda9..1385cfd main -> main
```

We can see here it was committed and pushed correctly.

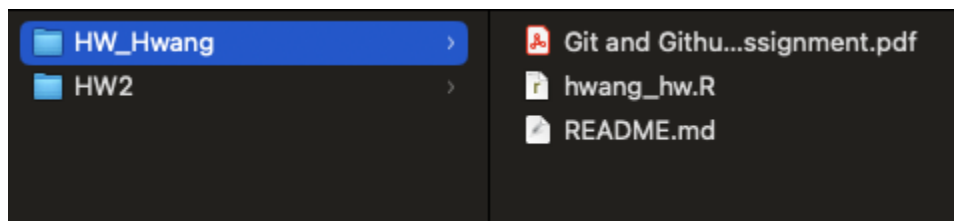


### 3. Task 3: Generate 100 Random Normal Numbers (20 points)

- Points: 20

- R script created correctly with name following instructions (5 points).
- 100 random normal numbers generated with mean 25 and standard deviation 1 using `rnorm()` (10 points).
- Proper commit with meaningful message and use of `git add`, `git commit`, and `git push` (5 points).

I created a r file called "hwang\_hw.R"




Here is the code I added to hwang\_hw.R

```
1 random_numbers <- rnorm(100, mean = 25, sd = 1)
```

I used git add, push, and commit correctly

```
• andrewhwang@andrews-mbp-2 hw_hwang % git add hwang_hw.R
• andrewhwang@andrews-mbp-2 hw_hwang % git commit -m "Create 100 random numbers with a mean of 25 and a SD of 1"
[main b81937b] Create 100 random numbers with a mean of 25 and a SD of 1
1 file changed, 1 insertion(+)
create mode 100644 hwang_hw.R
• andrewhwang@andrews-mbp-2 hw_hwang % git push
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 12 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 352 bytes | 352.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To github.com:Hwangster1/HW_Hwang.git
1385cfd..b81937b main -> main
```

Create 100 random numbers with a mean of 25 and a SD of 1

 Hwangster1 committed 15 minutes ago

#### 4. Task 4: Compute the Mean (15 points)

- Points: 15

- Mean of the 100 random numbers computed correctly (10 points).
- Proper commit with appropriate message and use of `git add`, `git commit`, and `git push` (5 points)

Code I added

```
random_numbers <- rnorm(100, mean = 25, sd = 1)
mean_value <- mean(random_numbers)
```

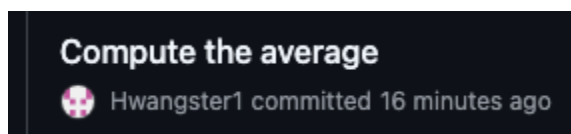
The mean value was 24.88... which sounded about correct with a mean of 25

mean_value	24.8847528068942
random_numbe...	num [1:100] 24.8 23.6 24.2 25.9 2...

Pushed

```
andrewhwang@andrews-mbp-2 hw_hwang % git add hwang_hw.R
andrewhwang@andrews-mbp-2 hw_hwang % git commit -m "Compute the average"
[main 0586232] Compute the average
1 file changed, 1 insertion(+)
andrewhwang@andrews-mbp-2 hw_hwang % git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 12 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 326 bytes | 326.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To github.com:Hwangster1/HW_Hwang.git
b81937b..0586232 main -> main
andrewhwang@andrews-mbp-2 hw_hwang % git add hwang_hw.R
```

Committed correctly




## 5. Task 5: Compute the Standard Deviation (15 points)

- Points: 15

- Standard deviation of the vector computed correctly (10 points).
- Proper commit with appropriate message and use of `git add`, `git commit`, and `git push` (5 points).

```
● andrewhwang@andrews-mbp-2 hw_hwang % git add hwang_hw.R
● andrewhwang@andrews-mbp-2 hw_hwang % git commit -m "Compute Standard Deviation"
[main 70d6273] Compute Standard Deviation
 1 file changed, 1 insertion(+)
● andrewhwang@andrews-mbp-2 hw_hwang % git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 12 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 326 bytes | 326.00 KiB/s, done.
Total 3 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To github.com:Hwangster1/HW_Hwang.git
 0586232..70d6273  main -> main
```

### Compute Standard Deviation

 Hwangster1 committed 17 minutes ago

```
1 random_numbers <- rnorm(100, mean = 25, sd = 1)
2 mean_value <- mean(random_numbers)
3 sd_value <- sd(random_numbers)
```

mean_value	24.8847528068942
0.952884464567197	um [1:100] 24.8 23.6 24.2 25.9 2...
sd_value	0.952884464567197

Added the code into R Studio, committed, and pushed

## 6. Task 6: Print the Mean and Standard Deviation (15 points)

- Points: 15

- Script modified to print both mean and standard deviation correctly (10 points).
- Proper commit with appropriate message and use of `git add`, `git commit`, and `git push` (5 points).

### Print the mean and SD

Feb 9, 2025, 9:14 PM EST 17 minutes ago

```
nothing to commit, working tree clean
● andrewhwang@andrews-mbp-2 hw_hwang % git add hwang_hw.R
● andrewhwang@andrews-mbp-2 hw_hwang % git commit -m "Print the mean and SD"
[main 30d25dc] Print the mean and SD
 1 file changed, 1 insertion(+)
● andrewhwang@andrews-mbp-2 hw_hwang % git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 12 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 396 bytes | 396.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To github.com:Hwangster1/HW_Hwang.git
 70d6273..30d25dc  main -> main
○ andrewhwang@andrews-mbp-2 hw_hwang %
```

```
> sd_value <- sd(random_numbers)
> print(paste("The Mean is", mean_value, "and the Standard Deviation is", sd_value))
[1] "The Mean is 24.8847528068942 and the Standard Deviation is 0.952884464567197"
```

```
1 random_numbers <- rnorm(100, mean = 25, sd = 1)
2 mean_value <- mean(random_numbers)
3 sd_value <- sd(random_numbers)
4 print(paste("The Mean is", mean_value, "and the Standard Deviation is", sd_value))
5 |
```

**7. Submission (10 points)**

○ **Points: 10**

- URL of the GitHub repository correctly submitted in Canvas (10 points).