Make Repo and an empty bash script

- Go to github and make a new repository called: `bioinformatics_course`
    - create an empty README.md
- Open a Terminal on your computer
- use `git clone` to clone your repository to your local computer
- RUN THIS IN YOUR TERMINAL:

```
## NOTE: Remeber to replace YOUR_GIT_USER_NAME with your github username
## eg:if I was running this command it would look like:-
## git clone https://github.com/snewhouse/bioinformatics_course.git
git clone https://github.com/YOUR_GIT_USER_NAME/bioinformatics_course.git

```

- move to your the folder you downloaded on your local computer
- RUN THIS IN YOUR TERMINAL:

```
cd bioinformatics_course
```

- create a new directory called `scripts`
- RUN THIS IN YOUR TERMINAL:

```
mkdir -p scripts
```

- move to scripts and make a new empty bash file :
- RUN THIS IN YOUR TERMINAL:

```
cd scripts
touch my-script.sh
```

- Open your script `my-script.sh` in any text editor (NOT WORD) : see https://www.life

wire.com/best-free-text-editors-4155819 and choose one.
- add the shebang (see https://en.wikipedia.org/wiki/Shebang_(Unix))
- ADD THIS TO YOUR SCRIPT USING A TEXT EDITOR (CUT AND PASTE)

```
#!/usr/bin/env bash
```

- Save the `my-script.sh`
- Close the test editor
- Then in the terminal run your git workflow: git add, git commit, git push to github
- RUN THIS IN YOUR TERMINAL:

```
git add .
git commit -m "added empty script"
git push
```

- go to your git repo on github and see if it has all been successfully pushed to github
- add me `snewhouse` as a collaborator

Write a bash script to create a base project directory

- open your script `my-script.sh` in any text editor: see https://www.lifewire.com/best-free-text-editors-4155819 and choose one
- write a script to make the following sudirectories and add a README.md to each folder
  - data
  - docs
- ADD THIS TO YOUR SCRIPT USING A TEXT EDITOR (CUT AND PASTE)

```
#!/usr/bin/env bash
# make empty directories in your git repo
mkdir -p analysis docs data

# add a README.md to each directory
# the scripts directory already exists
for my_directory in scripts analysis docs data;do
  touch ${my_directory}/README.md
  echo "# ${my_directory}" >> ${my_directory}/README.md
done
```

- Save the file
- Close the texteditor

- Open your terminal
- Move to the scripts dir
- make the script executable using `chmod +x`

```
cd bioinformatics_course/scripts

chmod +x my-script.sh

```

- now git add, git commit, git push to github
- RUN THIS IN YOUR TERMINAL:

```
git add .

git commit -m "not tested: updated script to make empty dirs and
README.md"

git push
```

Run the bash script

- now test your script
- Open your terminal
- move to the `bioinformatics_course` folder
- If you are not sure where you are, type `pwd` in the Terminal
- Run your script `./scripts/my-script.sh`
- List the contents of the directory
- Run git workflow to add, commit and push changes to github
- RUN THIS IN YOUR TERMINAL:

```
## Move to bioinformatics_course
cd bioinformatics_course

## Run Script
./scripts/my-script.sh

## did it create any output?
ls -ls

## if yes: add them to git
git status
git add .
git commit -m "tested: my-script.sh directories created"
git push
```

Add a pic to 7BBG2016_Bioinformatics

- RUN THIS IN YOUR TERMINAL:

```
## clone 7BBG2016_Bioinformatics into your HOME directory

# move to your home directory
cd ~/

# clone the github repository
git clone https://github.com/snewhouse/7BBG2016_Bioinformatics.git

## Move to 7BBG2016_Bioinformatics
cd 7BBG2016_Bioinformatics

# set your name: add your name where it says
# INSERT_YOUR_NAME_HERE in the text below
your_name="INSERT_YOUR_NAME_HERE"

# This next bit of code
# checks if the folder already exists
# if not, then it makes a new folder
# this code says: if [ ! -d "${your_name}" ]; then
# If a directory does not exist then do something:
# make a directory
if [ ! -d "${your_name}" ]; then
  # Control will make a DIRECTORY if it doesn't exist.
  mkdir -p ${your_name}
fi

# add a new image to your README.md
# Note: FIX: the quote is a single straight quote
echo '![a_new_pic](https://us.v-cdn.net/5019796/uploads/FileUpload/eb/44f317f8850ba74b64ba47b02d1bae.png)' >> ${your_name}/README.md


# git add, commit, push
git pull
git status
git add .
git commit -m "new pic"
```

```
git push

```

This is what the pic is