

C Piscine Turn-in system

Introduction to Vogsphere

shah@mac.com

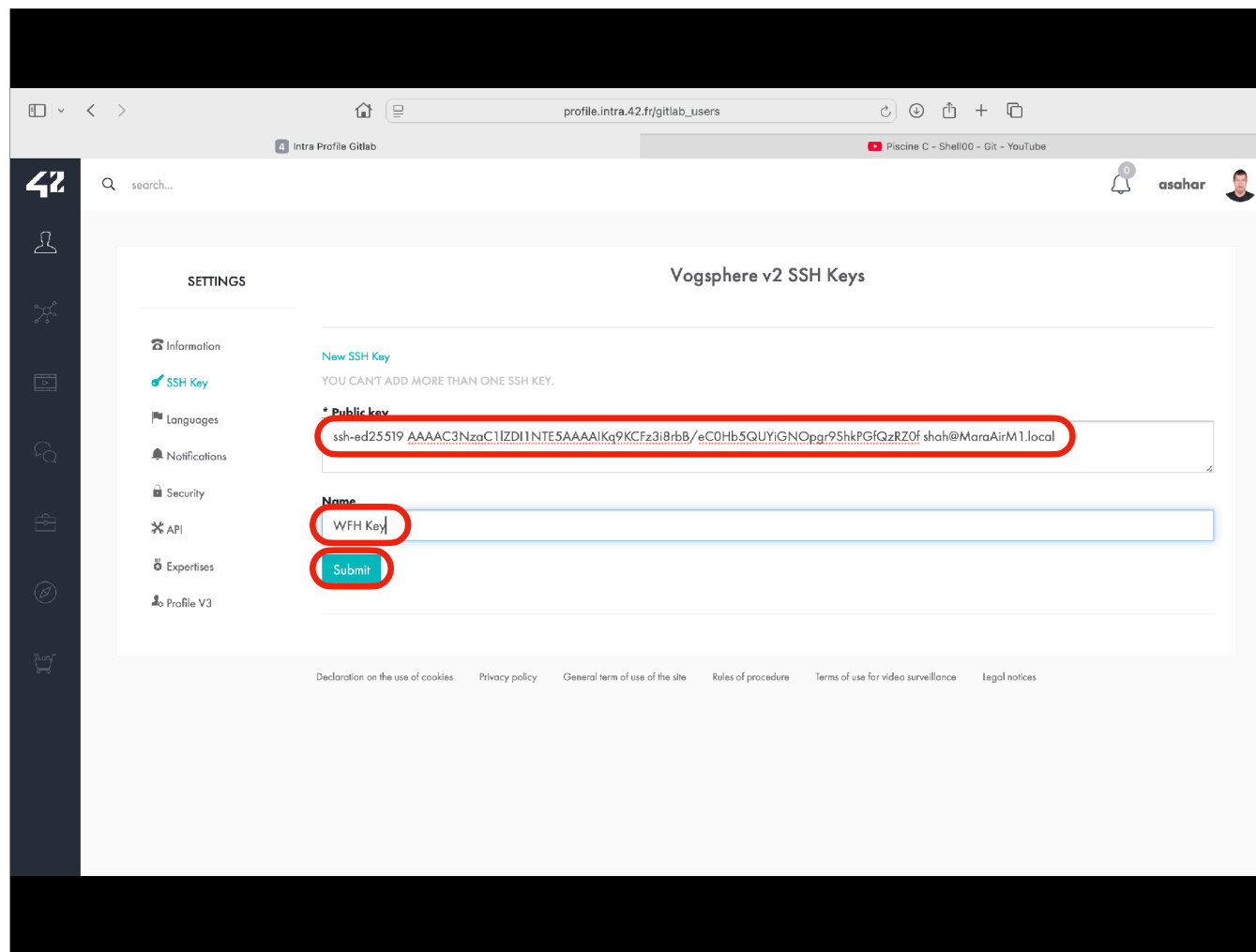
My simple guide on how to submit your assignments to Vogsphere.

```
shah@MaraAirM1 ~ % ssh-keygen
Generating public/private ed25519 key pair.
Enter file in which to save the key (/Users/shah/.ssh/id_ed25519): ↵
Enter passphrase for "/Users/shah/.ssh/id_ed25519" (empty for no passphrase): ↵
Enter same passphrase again: ↵
Your identification has been saved in /Users/shah/.ssh/id_ed25519
Your public key has been saved in /Users/shah/.ssh/id_ed25519.pub
The key fingerprint is:
SHA256:DtUTTo6N4rXEdizlethYtftT2Syqb7dRVtkmW89cLuc4 shah@MaraAirM1.local
The key's randomart image is:
+--[ED25519 256]--+
|      + o      |
|    . % + o .  |
|   . X @ . o=o |
|  . * X . .+oB |
| o S o o +*    |
| o .      * =   |
|   . . + +     |
|      0        |
|     o.E       |
+-----[SHA256]-----+
shah@MaraAirM1 ~ %
```

Open Terminal and use the ssh-keygen command. Press Enter 3 times to use the default name and to omit the passphrase. Your public and private keys will be generated and stored in the .ssh directory in your home directory.

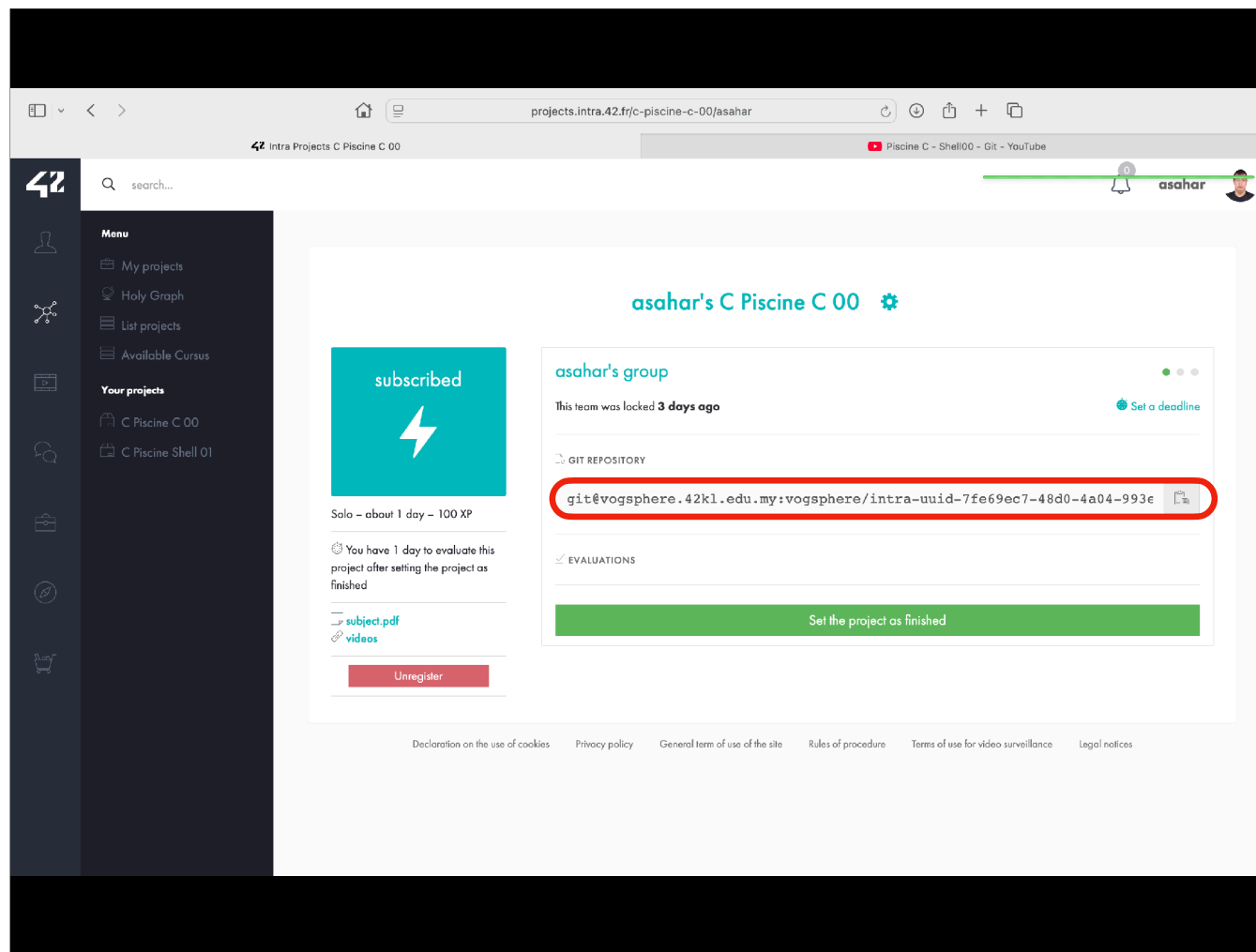
```
shah@MaraAirM1 ~ % cd .ssh
shah@MaraAirM1 .ssh % ls
id_ed25519      id_ed25519.pub  known hosts
shah@MaraAirM1 .ssh % cat id_ed25519.pub
ssh-ed25519 AAAAC3NzaC1lZD11NTE5AAAAIKq9KCFz3i8rbB/eC0Hb5QUYiGN0pgr9ShkPGfQzRZ0f
shah@MaraAirM1.local
shah@MaraAirM1 .ssh %
```

Inside the .ssh directory you will see a private key (xxxxxxxxxx) and a public key (xxxxxxxxxx.pub). Use the cat command (cat xxxxxxxxxxxx.pub) to see the contents of the public key and copy it.



Go to intra.42.fr and log in. Click your profile picture and choose Settings. In the SSH key section create a New SSH key and paste in the key you just copied. Enter a name for the key and click submit.

You only need to do this once, as it will be used each time you submit.



Go to your project page and copy the link to your repository.

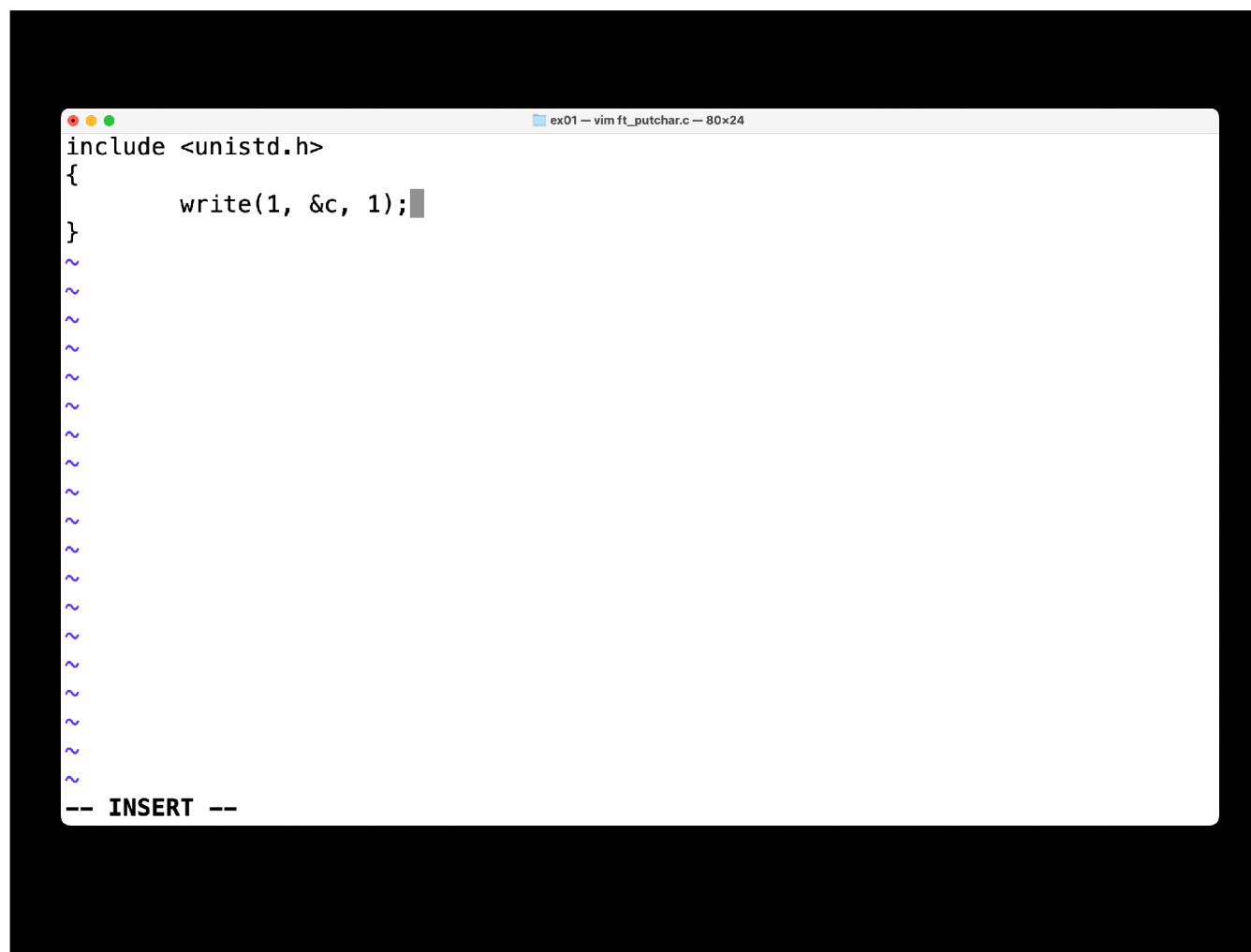
```
shah@MaraAirM1 ~ % pwd
/Users/shah
shah@MaraAirM1 ~ % git clone https://github.com/myibookmoe/my42KL my42KL
Cloning into 'my42KL'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (3/3), 12.67 KiB | 12.67 MiB/s, done.
shah@MaraAirM1 ~ %
```

link directory

In Terminal, use the git clone command, followed by the link you copied earlier and the directory you want to copy the contents of the repository to.

```
shah@MaraAirM1 ~ % pwd
/Users/shah
shah@MaraAirM1 ~ % git clone https://github.com/myibookmoe/my42KL my42KL
Cloning into 'my42KL'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (3/3), 12.67 KiB | 12.67 MiB/s, done.
shah@MaraAirM1 ~ % cd my42KL
shah@MaraAirM1 my42KL % mkdir ex01
shah@MaraAirM1 my42KL % cd ex01
shah@MaraAirM1 ex01 % vim ft_putchar.c
```

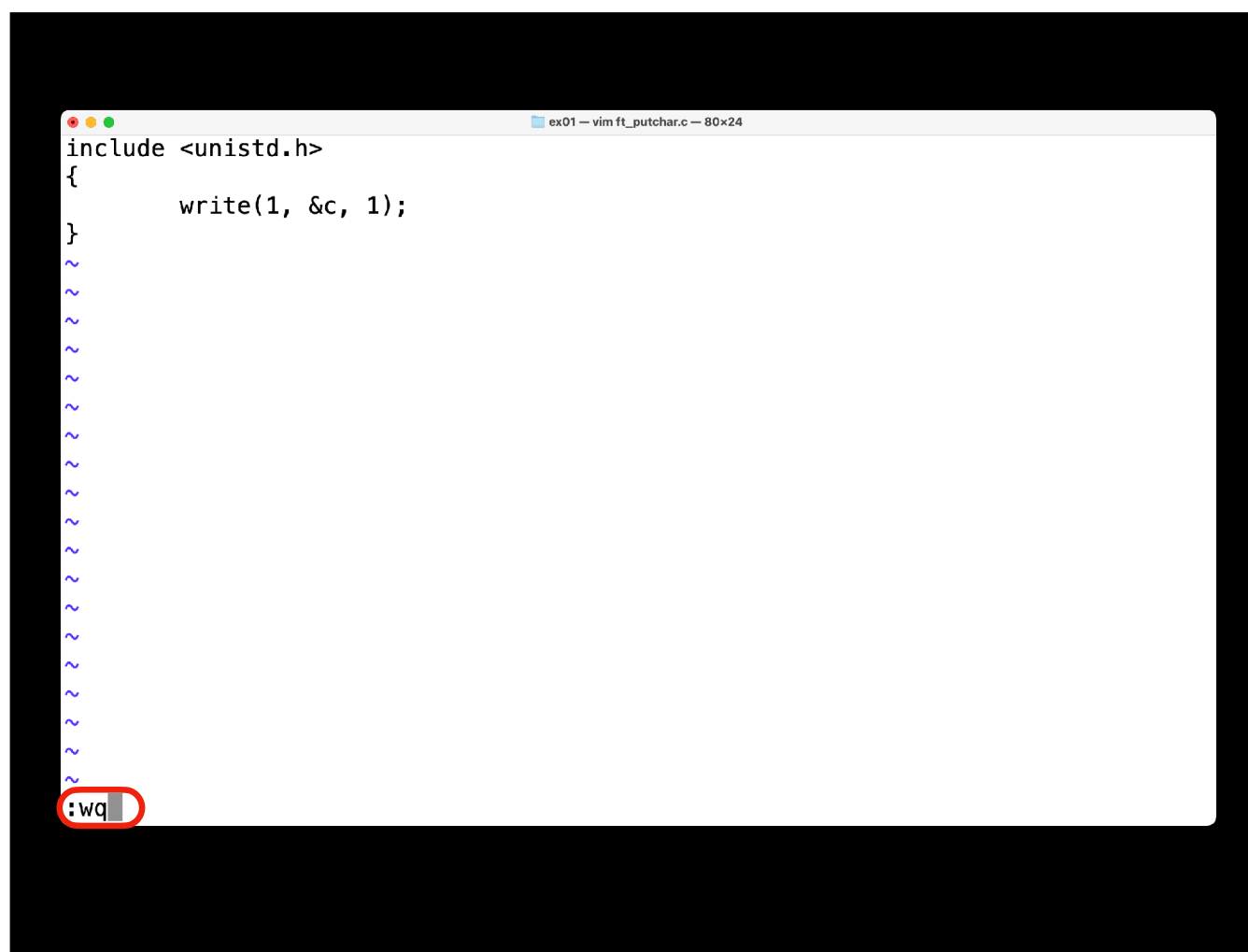
Use the mkdir command to create the assignment folder (ex01). Use vim to create and open a new file (ft_putchar.c).



The image shows a terminal window with a Vim editor. The title bar of the window reads "ex01 - vim ft_putchar.c - 80x24". The editor is in Insert mode, as indicated by "-- INSERT --" at the bottom left. The code being entered is a simple C program that includes `<unistd.h>` and contains a function `write(1, &c, 1);`. The cursor is positioned at the end of the `write` function call. The left margin of the editor shows line numbers from 1 to 14, with tilde (~) characters indicating the current line.

```
include <unistd.h>
{
    write(1, &c, 1);
}
~
~
~
~
~
~
~
~
~
~
~
~
~
~
-- INSERT --
```

Press i to enter Insertion mode and enter the contents of the ft_putchar.c file.



The image shows a terminal window with a Vim editor. The editor's title bar reads "ex01 - vim ft_putchar.c - 80x24". The code in the buffer is:

```
include <unistd.h>
{
    write(1, &c, 1);
}
```

Below the code, there are 15 lines of tilde (~) characters. At the bottom left, the command line shows ":wq" followed by a cursor, which is circled in red.

Press Escape to enter Command mode and type :wq to save and exit.

```
shah@MaraAirM1 ~ % pwd
/Users/shah
shah@MaraAirM1 ~ % git clone https://github.com/myibookmoe/my42KL my42KL
Cloning into 'my42KL'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (3/3), 12.67 KiB | 12.67 MiB/s, done.
shah@MaraAirM1 ~ % cd my42KL
shah@MaraAirM1 my42KL % mkdir ex01
shah@MaraAirM1 my42KL % cd ex01
shah@MaraAirM1 ex01 % vim ft_putchar.c
shah@MaraAirM1 ex01 % pwd
/Users/shah/my42KL/ex01
shah@MaraAirM1 ex01 % cd ..
shah@MaraAirM1 my42KL % pwd
/Users/shah/my42KL
shah@MaraAirM1 my42KL %
```

Navigate back to the root level of the git directory.

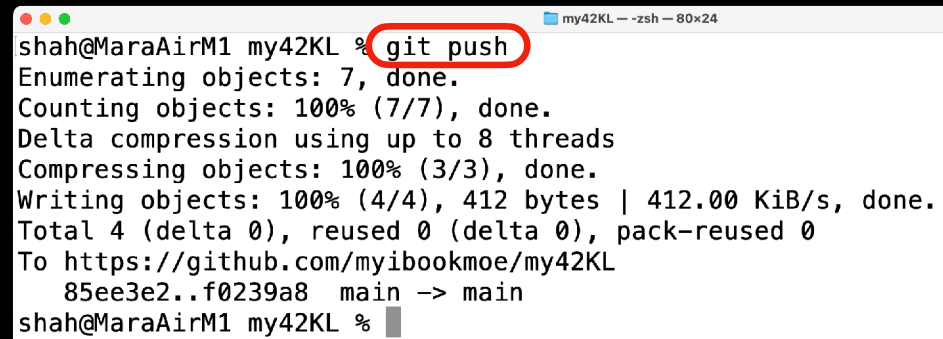
```
shah@MaraAirM1 my42KL % git add *
shah@MaraAirM1 my42KL % git status
On branch main
Your branch is up to date with 'origin/main'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   ex01/ft_putchar.c

shah@MaraAirM1 my42KL % git commit -m "Added ex01"
[main 85ee3e2] Added ex01
 1 file changed, 4 insertions(+)
 create mode 100644 ex01/ft_putchar.c
shah@MaraAirM1 my42KL % git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean
shah@MaraAirM1 my42KL %
```

Type git status to see if there are any files that have not been added. Type git add * to add all files and folders to the local repository. Type git commit -m "Commit message" to commit the newly added file to the repository.

A terminal window titled 'my42KL - zsh - 80x24' is shown against a black background. The prompt is 'shah@MaraAirM1 my42KL %'. The command 'git push' is entered and highlighted with a red circle. The output shows the progress of pushing to a GitHub repository.

```
shah@MaraAirM1 my42KL % git push
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (4/4), 412 bytes | 412.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/myibookmoe/my42KL
   85ee3e2..f0239a8  main -> main
shah@MaraAirM1 my42KL %
```

Type git push to transfer the files to the online repository. All done!