

GitHub: Initial setup and first project.

Installation and setup

Step 1: Create GitHub account

Step 2: Download and install git for windows from <https://git-scm.com/download/win>

Step 3: Verify git installation using the command: `git -version`

Step 4: Set a default user name and email to use while saving the work:

```
git config --global user.name "nik12"
```


```
git config --global user.email nithishk12@gmail.com
```

Working with git hub projects by creating a local repository on PC.

Step 1: Login to git hub

Step 2: Create new repository by clicking “New repository” button on GitHub webpage and provide initial details like repository name, public/private... and click on create repository.

Owner *

 niti42 ▾

/


Repository name *


learning_data_science ✓

Great repository names are short and memorable. Need inspiration? How about [effective-train?](#)

Description (optional)

Project will contain codes written by me during my learning process.

☒  **Public**
Anyone on the internet can see this repository. You choose who can commit.


☐  **Private**
You choose who can see and commit to this repository.

Initialize this repository with:
Skip this step if you're importing an existing repository.

☒ **Add a README file**
This is where you can write a long description for your project. [Learn more.](#)

☐ **Add .gitignore**
Choose which files not to track from a list of templates. [Learn more.](#)

☐ **Choose a license**
A license tells others what they can and can't do with your code. [Learn more.](#)

This will set  **main** as the default branch. Change the default name in your [settings](#).

Create repository

Step 3: Get a copy of this repository on the computer. Clone this repository to the local machine by copying the https link and using the command:

```
e:\Data Science>git clone  
https://github.com/niti42/learning\_data\_science.git
```

```
e:\>cd "Data Science"  
  
e:\Data Science>git clone https://github.com/niti42/learning_data_science.git  
Cloning into 'learning_data_science'...  
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  
Receiving objects: 100% (3/3), done.
```

Step 4: Create the folder in the directory desired.

```
e:\Data Science>cd learning_data_science
```

These are steps while committing to Git.

St 1: Check the files that have been modified using: `git status`

St 2: Add the updated file or new file using add command

```
e:\Data Science\learning_data_science>git add  
Set_1_Descriptive_statistics_probability.py
```

St 3: Add a message describing changes we have done using `git commit -m`

Note: Use double quotes for the commit message.

```
git commit -m "Solution to first problem from Assignment 2 set 1"
```

St 4 (Should this be done everytime?): Upload this work on github. We must push our files to remote (duplicate instance of our repo that lives on a remote server elsewhere). We first get the remote's name

```
e:\Data Science\learning_data_science>git remote  
origin
```

St 5: type the following commands

```
git branch -M main
```

```
git push -u origin main
```

```
e:\Data Science\learning_data_science>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)
    modified:   Set_1_Descriptive_statistics_probability.py

e:\Data Science\learning_data_science>git add Set_1_Descriptive_statistics_probability.py




e:\Data Science\learning_data_science>git commit -m "Removed all unnecessary lines of code"
[main 0b23115] Removed all unnecessary lines of code
 1 file changed, 1 insertion(+), 83 deletions(-)

e:\Data Science\learning_data_science>git branch -M main

e:\Data Science\learning_data_science>git push -u origin main
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 379 bytes | 379.00 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 https://github.com/niti42/learning_data_science.git
   2c081df..0b23115  main -> main
Branch 'main' set up to track remote branch 'main' from 'origin'.


e:\Data Science\learning_data_science>
```

Now, on the GitHub page, we find this:

 main
  1 branch
  0 tags

Go to file
Add file
Code

| File | Commit Message | Commit Hash | Time |
|---|---|-------------|----------------|
| README.md | Initial commit | 0b23115 | 7 minutes ago |
| Set_1_Descriptive_statistics_probabi... | Removed all unnecessary lines of code | 0b23115 | 7 minutes ago |
| p1.xlsx | Solution to first problem from Assignment 2 set 1 | 0b23115 | 37 minutes ago |



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