

Expert Systems

Git Workflow for Students

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Outlines

- 1 Installing Git on Windows
- 2 Own Directory and preparing for coding
- 3 cloning and Creating a New Branch
- 4 Pushing a New Branch

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Installing Git on Windows

- ❶ Go to the official Git website: <https://git-scm.com/>
- ❷ Download the Windows installer.
- ❸ Run the installer and follow these steps:
 - Select **Use Git from the Windows Command Prompt** during installation.
 - Enable **Git Credential Manager** (optional but recommended).
- ❹ Finish the installation.
- ❺ Verify installation:
 - Open Command Prompt or Git Bash.
 - Run: `git --version`
- ❻ Git is now ready to use.

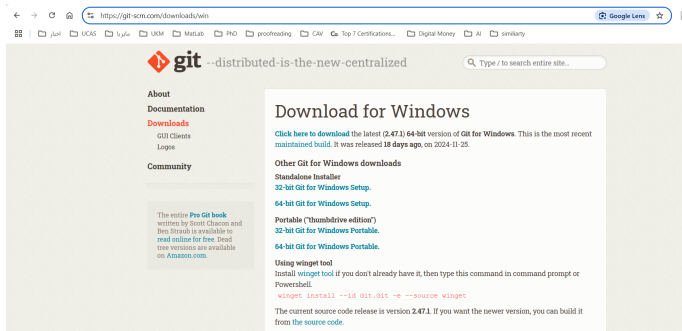


Figure: Git website

```
C:\Users\ASUS>git --version  
git version 2.47.1.windows.1  
  
C:\Users\ASUS>|
```

Figure: Check Git version on windows Command Prompt

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Open directory using Command Prompt

- Go to any place in your space.
- Make a directory with your name.
- Open the directory by git as shown below.


```
C:\Users\ASUS>cd "Desktop\My Assignment"  
C:\Users\ASUS\Desktop\My Assignment>|
```

Figure: open directory

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Cloning and Creating a New Branch

① Clone the repository:

- `git clone https://github.com/mtahrawi/Expert-systems.git`

② Check on your windows that the cloning has been done

③ Create and switch to a new branch:

- `git checkout -b <Your name>`
- Example: `git checkout -b mtahrawi`

④ Edit the code by your own code editor:

- Add files or make changes using any convenient code editor.
- Add your name to the main code file.

⑤ Create the branch

- Stage the changes: `git add .`
- Commit the changes: `git commit -m "Added assignment of <your name>"`

```
C:\Users\ASUS\Desktop\My Assignment>git clone https://github.com/mtahrawi/Expert-systems.git
Cloning into 'Expert-systems'...
remote: Enumerating objects: 103, done.
remote: Counting objects: 100% (76/76), done.
remote: Compressing objects: 100% (66/66), done.
Rremote: Total 103 (delta 37), reused 36 (delta 8), pack-reused 29 (from 1)
Receiving objects: 100% (103/103), 352.31 KiB | 511.00 KiB/s, done.
Resolving deltas: 100% (41/41), done.

C:\Users\ASUS\Desktop\My Assignment>
```

Figure: Step 1: Clone caption

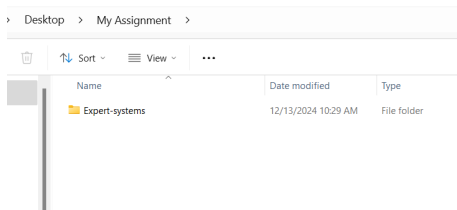


Figure: Step 2: Check the cloned folder in your device

```
C:\Users\ASUS\Desktop\My Assignment\Expert-systems>git checkout -b mtahrawi  
Switched to a new branch 'mtahrawi'
```

Figure: Step 3: Checkout branch

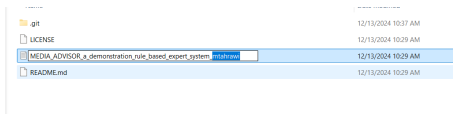


Figure: Step 4: Adding your name to the main code file

```
C:\Users\ASUS\Desktop\My Assignment\Expert-systems>git add .  
C:\Users\ASUS\Desktop\My Assignment\Expert-systems>git commit -m "Added assignment of ntahrawi"  
[ntahrawi eecbd2c] Added assignment of ntahrawi  
1 file changed, 0 insertions(+), 0 deletions(-)  
rename MEDIA_ADVISOR_a_demonstration_rule_based_expert_system.ipynb => MEDIA_ADVISOR_a_demonstration_rule_based_expert_system_ntahrawi.ipynb (100%)  
C:\Users\ASUS\Desktop\My Assignment\Expert-systems>
```

Figure: Step 5: Add branch and commitment

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Pushing a New Branch

- ① Push the branch to the repository:
 - `git push origin <branch-name>`
 - Example: `git push origin mtahrawi`
- ② Your branch is now available in the mine repository.
- ③ Please wait until I get back with my comments.


```
C:\Users\ASUS\Desktop\My Assignment\Expert-systems>git push origin mtahrawi
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 20 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (2/2), 254 bytes | 254.00 KiB/s, done.
Total 2 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote:
remote: Create a pull request for 'mtahrawi' on GitHub by visiting:
remote:   https://github.com/mtahrawi/Expert-systems/pull/new/mtahrawi
remote:
To https://github.com/mtahrawi/Expert-systems.git
 * [new branch]      mtahrawi -> mtahrawi
C:\Users\ASUS\Desktop\My Assignment\Expert-systems>|
```

Figure: push the branch under your own work

THANKS