

# Assignment 1

Title : Git & GitHub Fundamentals

Aim of the Practical: To understand and apply the fundamental concepts of Git and GitHub by performing version control operations such as forking a repository, cloning it locally, modifying/creating files, and pushing changes back to the GitHub repository using terminal commands.

Objective:

To learn the basics of Git and GitHub.

To create and manage repositories.

To fork and clone repositories.

To create and commit files using Git.

To push changes to a remote GitHub repository.

To build familiarity with command-line operations for Git.

Explanation of Tasks Performed:

1. Created a GitHub Account:

Signed up at <https://github.com> with personal details and verified the email.

2. Forked the Instructor's Repository:

Navigated to the provided GitHub repository link shared by the instructor.

Clicked on the "Fork" button to create a copy of the repository under my GitHub account.

3. Cloned the Forked Repository:

Opened the terminal.

Used the command: `git clone <URL of my forked repo>` to clone the repository locally.

4. Created and Modified Files Locally:

Navigated to the cloned repository folder using terminal.

Created a new file (e.g., `my_details.txt`) and added relevant content.

Used `git add`, `git commit -m "message"`, `$git config --global user.email "email-id"` and `$git config --global user.name "name"` to configure the local git environment for authenticity to stage and commit the changes.

5. Pushed the Changes to GitHub:

Used the command: `git push origin main` (or `master`, depending on the default branch) to upload the committed changes to my GitHub repository.

# Screenshot's

> Code

Pull requests

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Artificial\_Intelligence\_Lab\_SE\_B\_45 Public

forked from [KiranGaikwad2020/Artificial\\_Intelligence\\_Lab](#)

master

1 Branch

0 Tags

Go to file

Add file

Code

This branch is 3 commits ahead of [KiranGaikwad2020/Artificial\\_Intelligence\\_Lab:master](#) .

Contribute

Sync fork

Parth120912 Choice Base bd6cde3 · 3 weeks ago 42 Commits

Artificial\_Intelligence\_Lab

Choice Base

3 weeks ago

images

Decimal To Binary

3 weeks ago

README.md

Update README.md

2 months ago

README

## Artificial\_Intelligence Lab

This repo demonstrates the knowledge base to understand basics of Artificial Intelligence.

It has course material designed as per the S.E. Artificial Intelligence and Data Science, SPPU, Pune.

About

This repo demonstrates the knowledge base to understand basics of Artificial Intelligence

Readme

Activity

0 stars

0 watching

0 forks

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Artificial\_Intelligence\_Lab

exp1.py

test.py

images

README.md

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Parth120912 Added exp1.py 3f3715b · 2 minutes ago History

This branch is 5 commits ahead of [KiranGaikwad2020/Artificial\\_Intelligence\\_Lab:master](#) .

Contribute

Sync fork

Name	Last commit message	Last commit date
..		
exp1.py	Added exp1.py	2 minutes ago
test.py	Decimal To Binary	3 weeks ago

Parth120912 Added exp1.py 3f3715b · 2 minutes ago History

Code

Blame

16 lines (13 loc) · 237 Bytes

Raw

```
1 #Convert a decimal number into binary
2 n = int(input("Enter any Number - "))
3
4 s = ""
5
6 if n != 0 :
7     while(n != 0 ):
8         x = n%2
9         n /= 2
10        n = int(n)
11        s = s + str(x)
12 else:
13     s = "0"
14
15 ans = s[::-1]
16 print(ans)
```

```
C:\Windows\System32\cmd.e  ×  +  ∨

Microsoft Windows [Version 10.0.26100.4652]
(c) Microsoft Corporation. All rights reserved.

D:\Programing_Coding\GitHub>git clone https://github.com/Parth120912/Artificial_Intelligence_Lab_SE_B_45.git
Cloning into 'Artificial_Intelligence_Lab_SE_B_45'...
remote: Enumerating objects: 145, done.
remote: Counting objects: 100% (56/56), done.
remote: Compressing objects: 100% (33/33), done.
remote: Total 145 (delta 23), reused 25 (delta 22), pack-reused 89 (from 1)
Receiving objects: 100% (145/145), 376.85 KiB | 435.00 KiB/s, done.
Resolving deltas: 100% (39/39), done.

D:\Programing_Coding\GitHub>cd Artificial_Intelligence_Lab_SE_B_45

D:\Programing_Coding\GitHub\Artificial_Intelligence_Lab_SE_B_45>cd Artificial_Intelligence_Lab

D:\Programing_Coding\GitHub\Artificial_Intelligence_Lab_SE_B_45\Artificial_Intelligence_Lab>git status
On branch master
Your branch is up to date with 'origin/master'.

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    expl.py

nothing added to commit but untracked files present (use "git add" to track)

D:\Programing_Coding\GitHub\Artificial_Intelligence_Lab_SE_B_45\Artificial_Intelligence_Lab>git add expl.py

D:\Programing_Coding\GitHub\Artificial_Intelligence_Lab_SE_B_45\Artificial_Intelligence_Lab>git status
On branch master
Your branch is up to date with 'origin/master'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   expl.py

D:\Programing_Coding\GitHub\Artificial_Intelligence_Lab_SE_B_45\Artificial_Intelligence_Lab>git config --global user.email "parth.jaiswal24@mmit.edu.in"

D:\Programing_Coding\GitHub\Artificial_Intelligence_Lab_SE_B_45\Artificial_Intelligence_Lab>git config --global user.name "Parth Jaiswal"
```

```
C:\Windows\System32\cmd.e  ×  +  ∨

D:\Programing_Coding\GitHub\Artificial_Intelligence_Lab_SE_B_45\Artificial_Intelligence_Lab>git commit -m " Added expl.py "
[master 3f3715b] Added expl.py
1 file changed, 16 insertions(+)
create mode 100644 Artificial_Intelligence_Lab/expl.py

D:\Programing_Coding\GitHub\Artificial_Intelligence_Lab_SE_B_45\Artificial_Intelligence_Lab>git push
Username for 'https://github.com': Parth120912
Password for 'https://Parth120912@github.com':
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 12 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 567 bytes | 567.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/Parth120912/Artificial_Intelligence_Lab_SE_B_45.git
 c1cdca6..3f3715b master -> master
```

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  PORTS  TERMINAL  Code  +  ∨  [ ]  [ ]  ...  [ ]  ×

PS D:\Programing_Coding\GitHub\Artificial_Intelligence_Lab_SE_B_45\Artificial_Intelligence_Lab> python -u "d:\Programing_Coding\GitHub\Artificial_Intelligence_Lab_SE_B_45\Artificial_Intelligence_Lab\expl1.py"
Enter any Number - 45
101101
PS D:\Programing_Coding\GitHub\Artificial_Intelligence_Lab_SE_B_45\Artificial_Intelligence_Lab> python -u "d:\Programing_Coding\GitHub\Artificial_Intelligence_Lab_SE_B_45\Artificial_Intelligence_Lab\expl1.py"
Enter any Number - 12
1100
PS D:\Programing_Coding\GitHub\Artificial_Intelligence_Lab_SE_B_45\Artificial_Intelligence_Lab> python -u "d:\Programing_Coding\GitHub\Artificial_Intelligence_Lab_SE_B_45\Artificial_Intelligence_Lab\expl1.py"
Enter any Number - 15
```