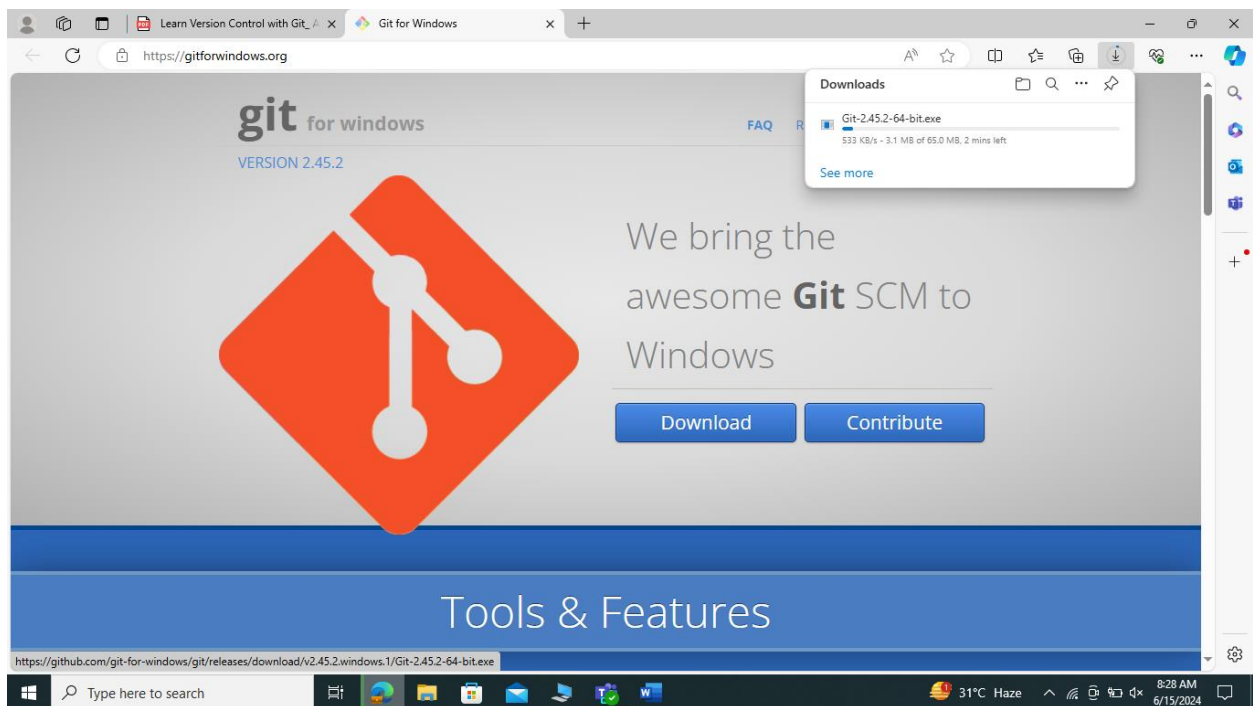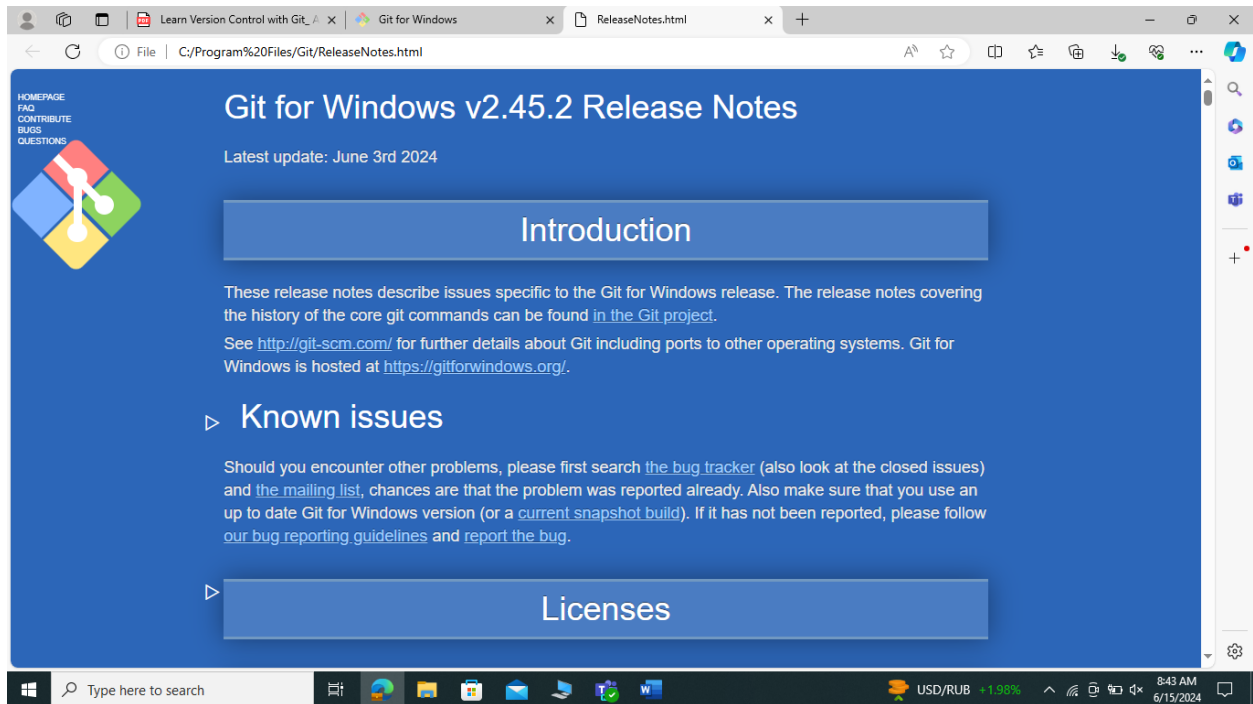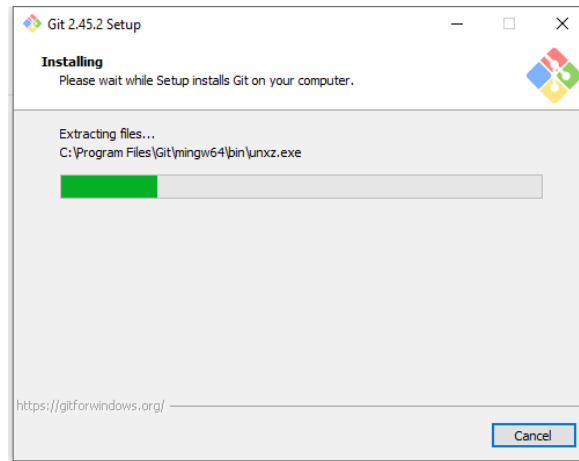# DATA SCIENCE_BWF_TASK_02

VERSION CONTROL SYSTEM (VCS)

It is like a "database", which keeps records of the changes we made in our project's files. It allows multiple people to collaborate on a project. It helps us in storing versions properly, restoring previous versions, understanding what is happening and backup facility.
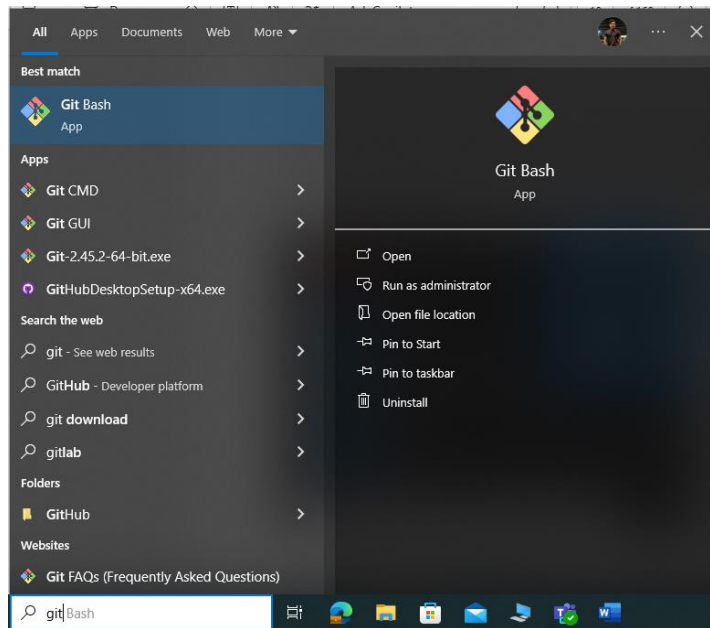
GETTING READY

There are two main ways of working with Git: either via its **"Command Line Interface"** or with a **"GUI application".**

SETTING UP GIT ON YOUR COMPUTER

Git 2.45.2 Setup

Installing
Please wait while Setup installs Git on your computer.

Extracting files...
C:\Program Files\Git\mingw64\bin\unxz.exe

https://gitforwindows.org/

Cancel

Learn Version Control with Git_A | Git for Windows | ReleaseNotes.html

File | C:/Program%20Files/Git/ReleaseNotes.html

HOMEPAGE
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Git for Windows v2.45.2 Release Notes

Latest update: June 3rd 2024

Introduction

These release notes describe issues specific to the Git for Windows release. The release notes covering the history of the core git commands can be found in the Git project.

See http://git-scm.com/ for further details about Git including ports to other operating systems. Git for Windows is hosted at https://gitforwindows.org/.

▷ Known issues

Should you encounter other problems, please first search the bug tracker (also look at the closed issues) and the mailing list, chances are that the problem was reported already. Also make sure that you use an up to date Git for Windows version (or a current snapshot build). If it has not been reported, please follow our bug reporting guidelines and report the bug.

▷ Licenses

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6/15/2024

CONFIGURING GIT

THE BASIC WORKFLOW OF VERSION CONTROL

Working with Repository: In Git, the repository is just a simple hidden folder named ".git" in the root directory of your project. There are two types of repositories

- Local Repository
- Remote Repository

A new, hidden folder was added, named ".git". All that happened is that Git created an empty local repository for us.

STARTING WITH AN EXISTING PROJECT ON A SERVER

WORKING ON YOUR PROJECT

GETTING READY TO COMMIT

CHAPTER-02: BRANCHING AND MERGING

Branches are the perfect tool which helps us avoid mixing up different lines of development. We should use branches extensively in your development workflows: for new features, bug fixes, experiments, ideas.

WORKING WITH BRANCHES
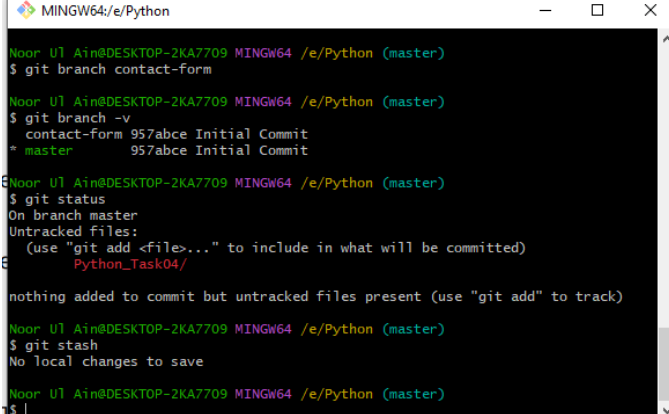
The Stash

Consider it as a clipboard on steroids: it takes all the changes in our working copy and saves them for us on a new clipboard. We 're left with a clean working copy, i.e. we have no more local changes.

CHECKING OUT A LOCAL BRANCH

MERGING CHANGES

It requires just two steps:

1. Check out the branch that ha receives the changes.

2. Call the "git merge" command with the name of the branch that contains the desired changes.