

Experiment :- 1.1

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Branch : CSE (Cloud Computing)

Section/Group : 23BCC-1 (A)

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Subject Name : Building & Release Management

Subject Code : 23CSH-395

1. Aim/Overview of the practical:

To perform the installation of Git and creation of a local repository for initiating version control.

2. Task to be done:

Install Git on your system and create a local repository to initiate version control.

3. Steps for Experiment/practical:

- Download and install Git from the official website: <https://git-scm.com> . After installation, configure the global username and email address using git config.
- Open a terminal or command prompt and navigate to the project directory that needs to be placed under version control.
- Initialize a new local Git repository in the selected directory using the git init command.
- Add the required project files to the staging area using git add <filename> or git add .
- Commit the staged files using git commit -m "Initial commit".
- Verify the repository status and commit history using git status and git log.

4. Learning outcomes:

To install Git and manage a repository for consistent version control. I have learned to install and configure Git, initialize a local repository, stage and commit files, and

understand the basic principles of version control for collaborative software development.

5. Result:

This program has been successfully executed.

6. Output:

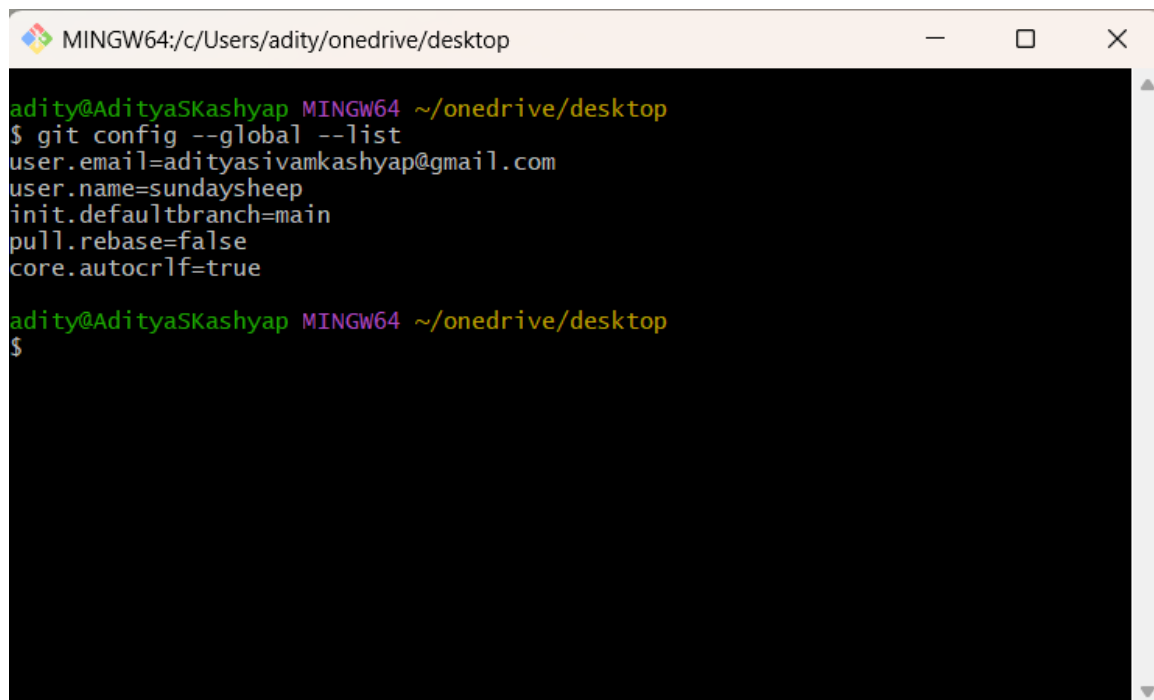
```
adity@AdityaSKashyap MINGW64 ~/onedrive/desktop
$ cd BRM-Sem-6

adity@AdityaSKashyap MINGW64 ~/onedrive/desktop/BRM-Sem-6
$ git init
Initialized empty Git repository in C:/Users/adity/OneDrive/Desktop/BRM-Sem-6/.git/

adity@AdityaSKashyap MINGW64 ~/onedrive/desktop/BRM-Sem-6 (main)
$ git add .

adity@AdityaSKashyap MINGW64 ~/onedrive/desktop/BRM-Sem-6 (main)
$ git commit -m "Initial Commit, 1.1 1.2 added"
[main (root-commit) aed1771] Initial Commit, 1.1 1.2 added
 2 files changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 1.1.docx
 create mode 100644 1.2.docx

adity@AdityaSKashyap MINGW64 ~/onedrive/desktop/BRM-Sem-6 (main)
$
```



The screenshot shows a Windows terminal window with the title bar "MINGW64:/c/Users/adity/onedrive/desktop". The terminal output is as follows:

```
adity@AdityaSKashyap MINGW64 ~/onedrive/desktop
$ git config --global --list
user.email=adityasivamkashyap@gmail.com
user.name=sundaysheep
init.defaultbranch=main
pull.rebase=false
core.autocrlf=true

adity@AdityaSKashyap MINGW64 ~/onedrive/desktop
$
```

Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			

7. Viva Questions:

- What is Git and why is it used in software development?
- What is the difference between a local repository and a remote repository?
- How do you configure Git for the first time after installation?
- What is the difference between git add and git commit?
- How can you check the status of your Git repository?

Web Links:

- Official Git Documentation
- TutorialsPoint – Git Tutorial