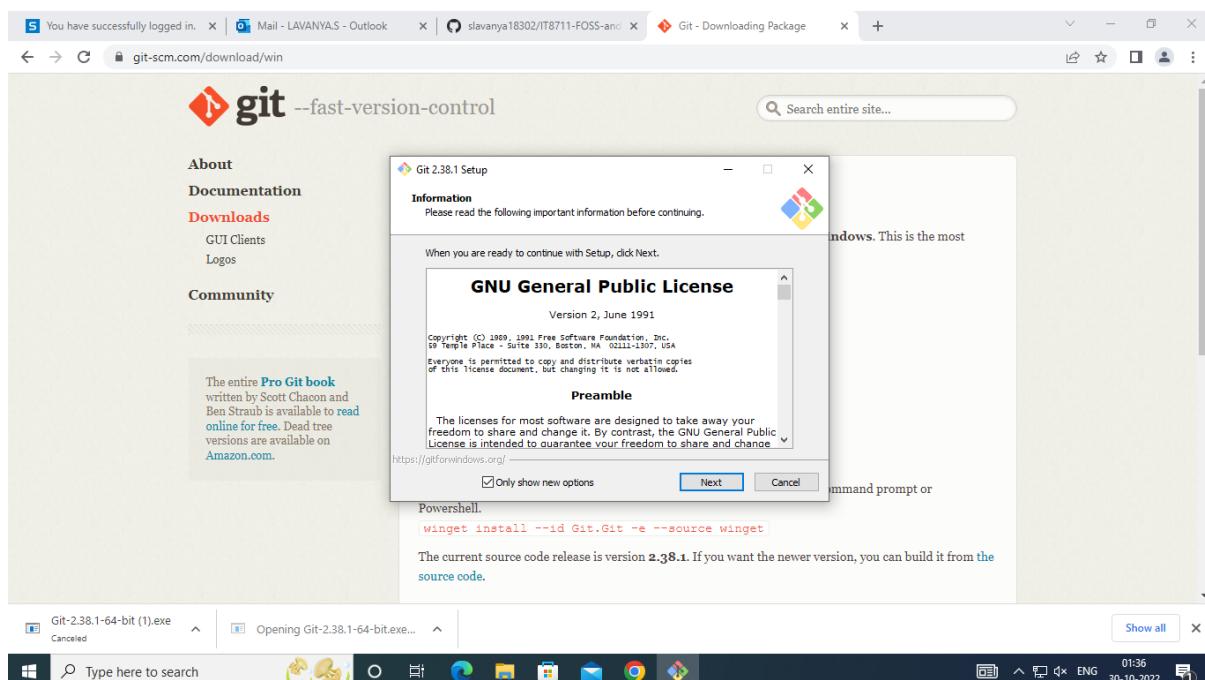
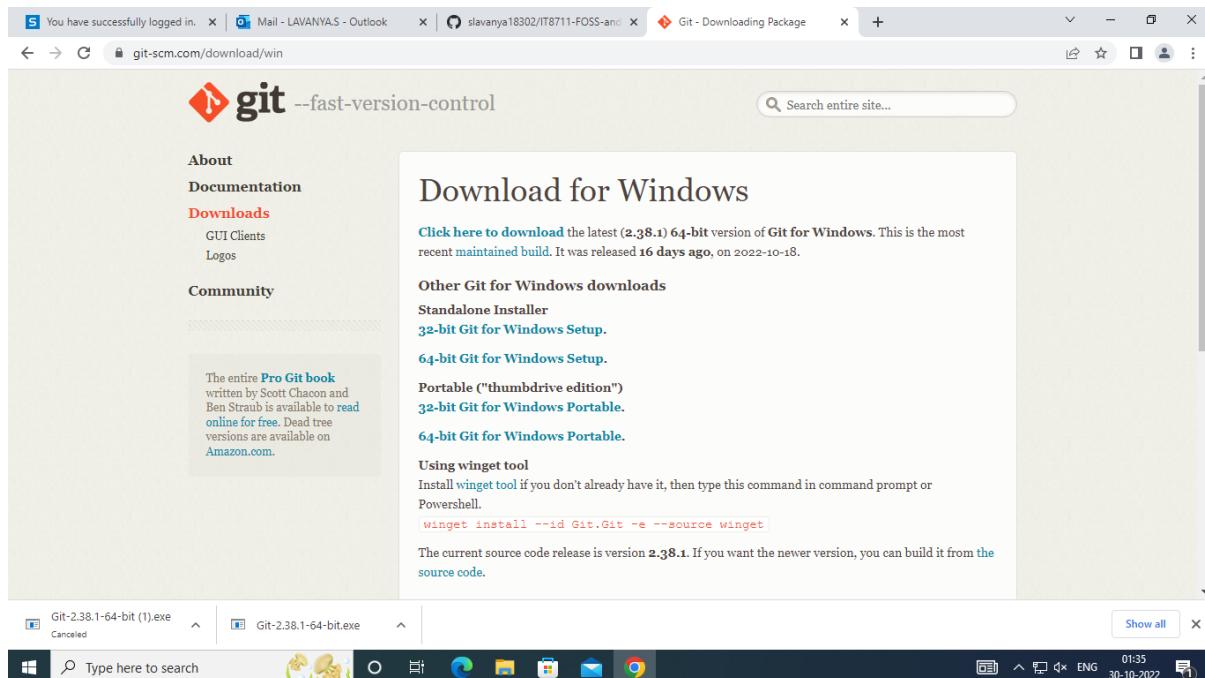


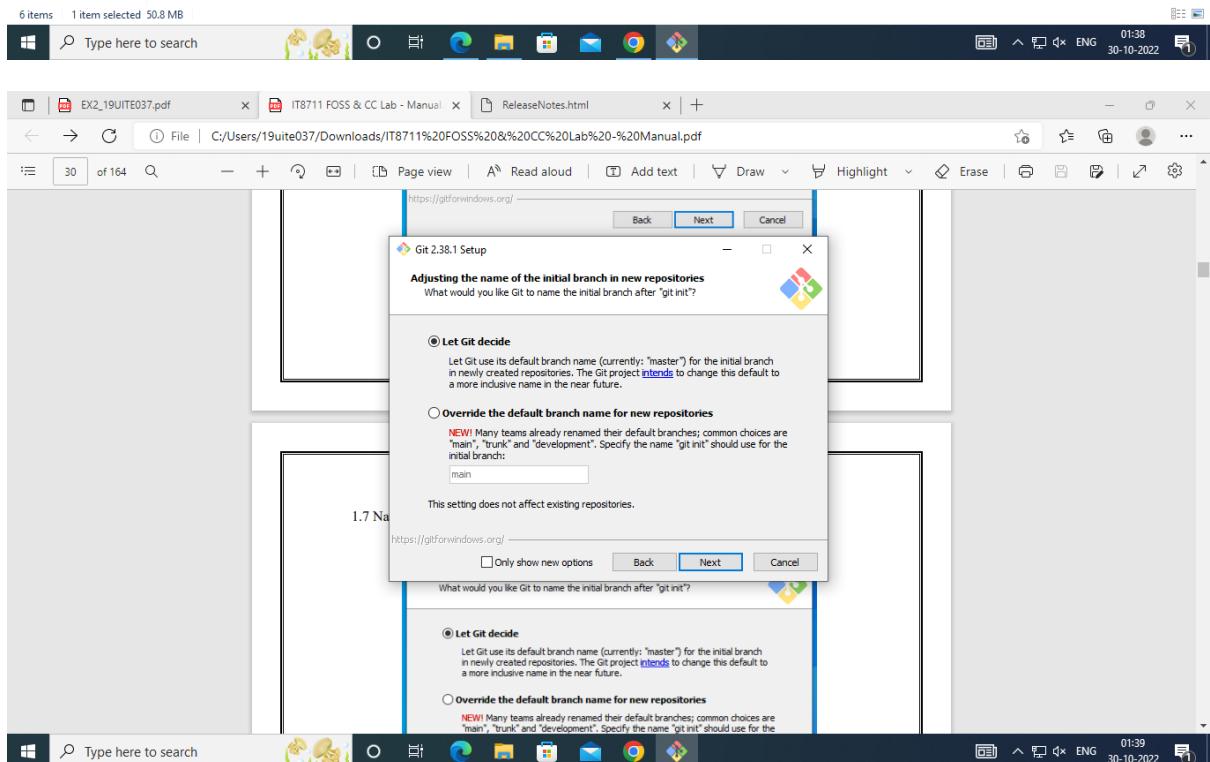
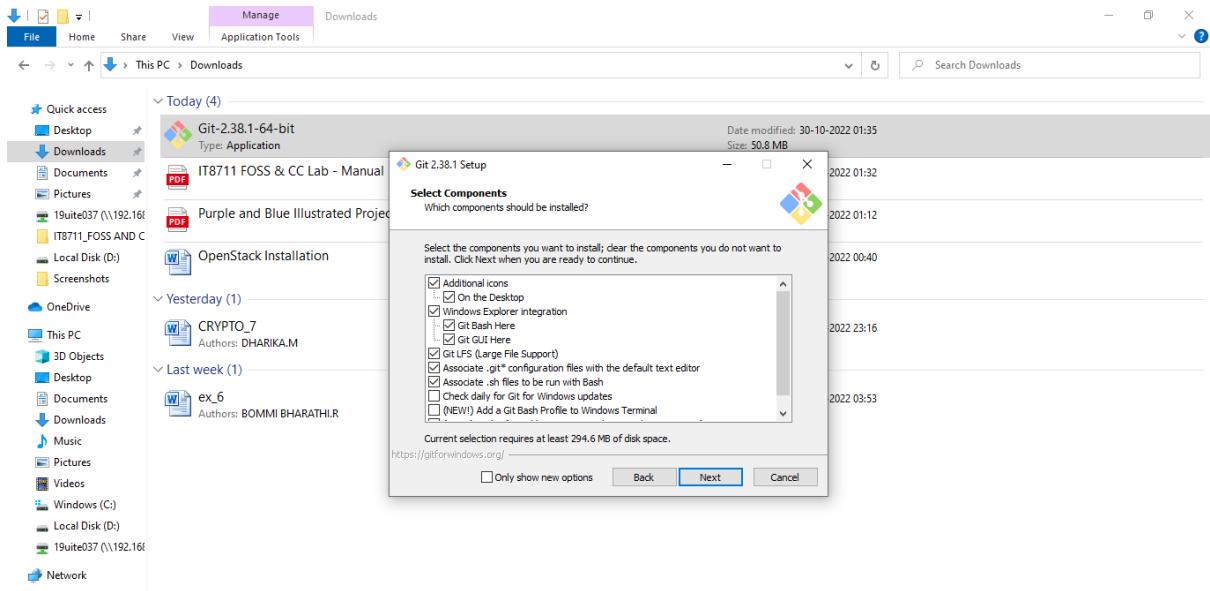
NAME : S.LAVANYA

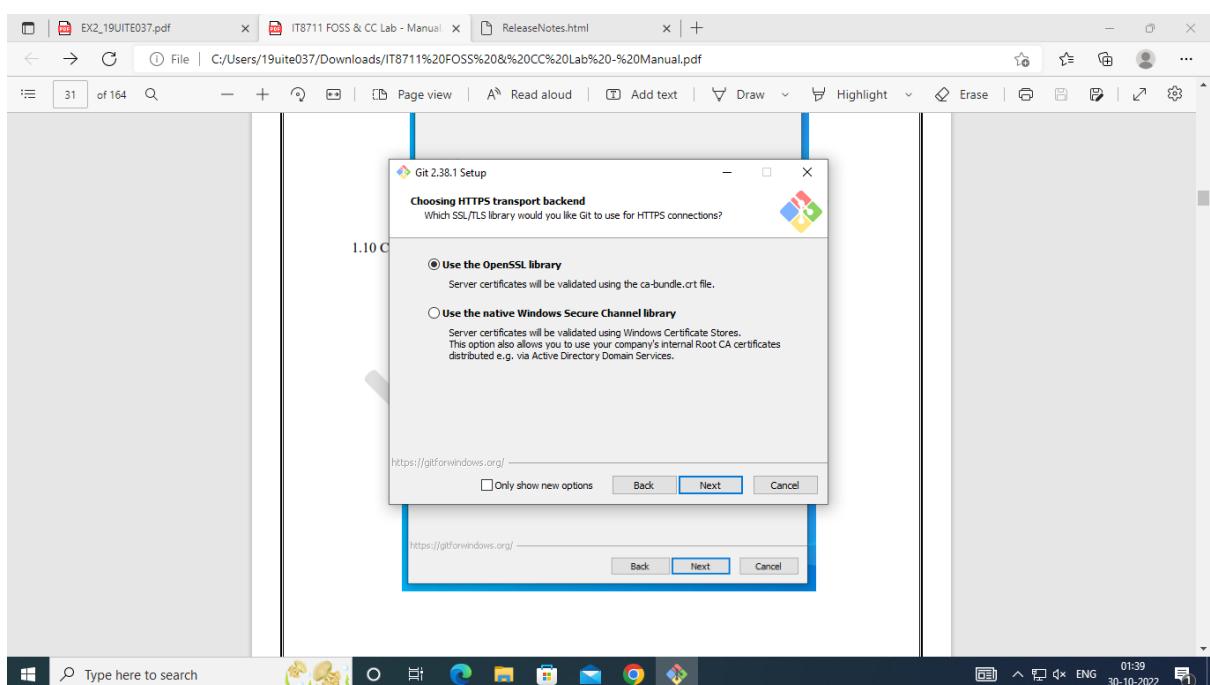
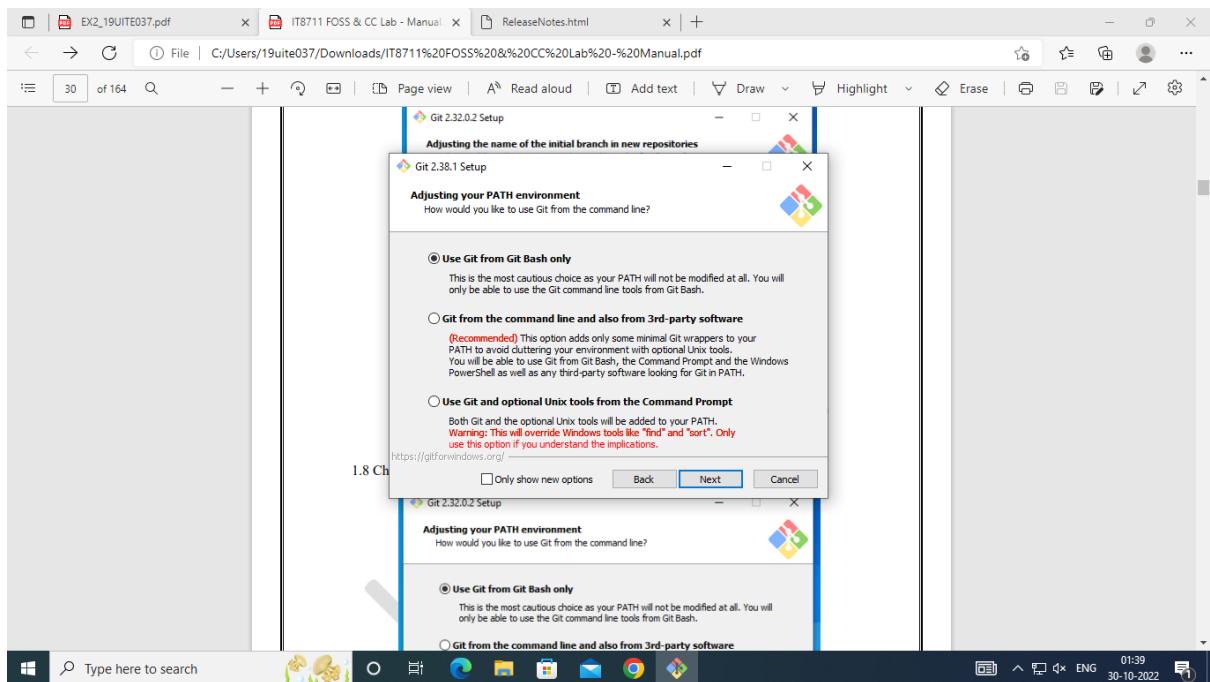
ROLL NO : 19UITE037

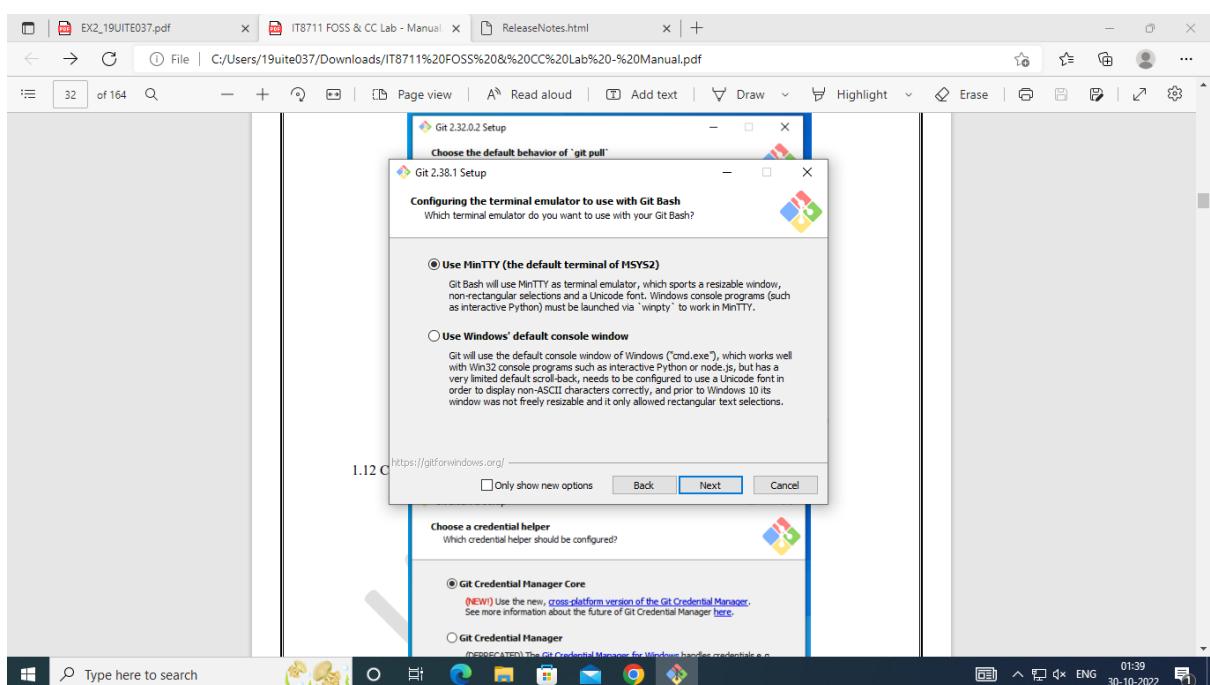
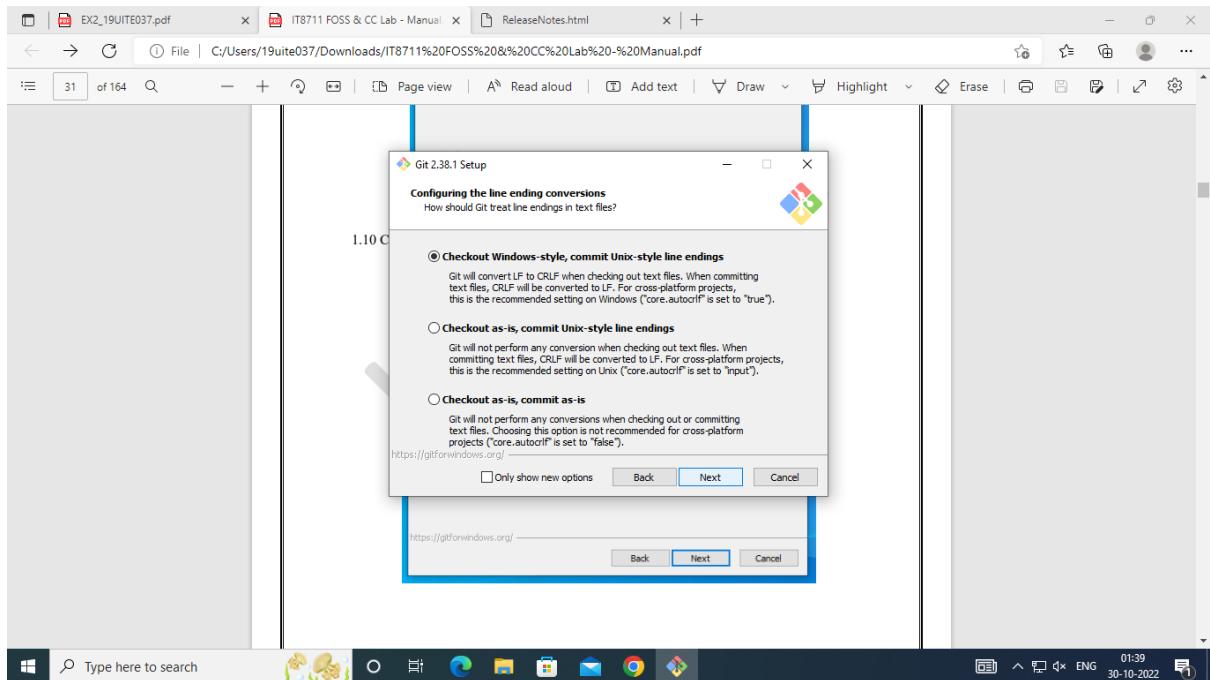
EX NO : 2

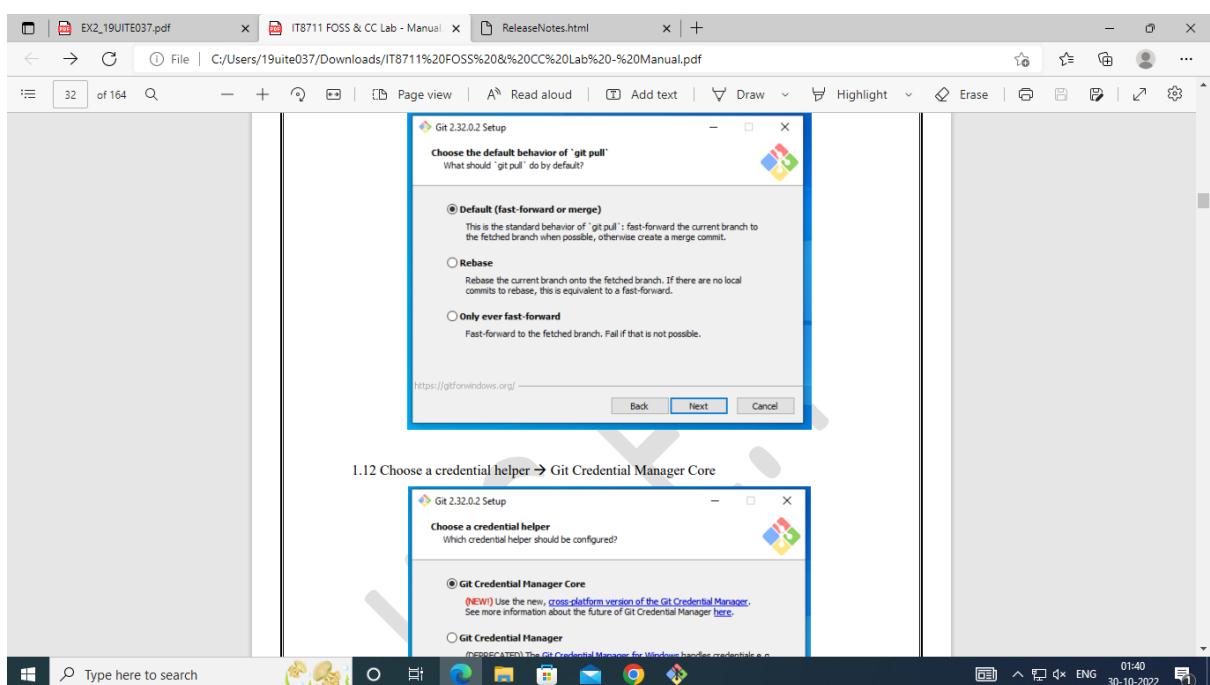
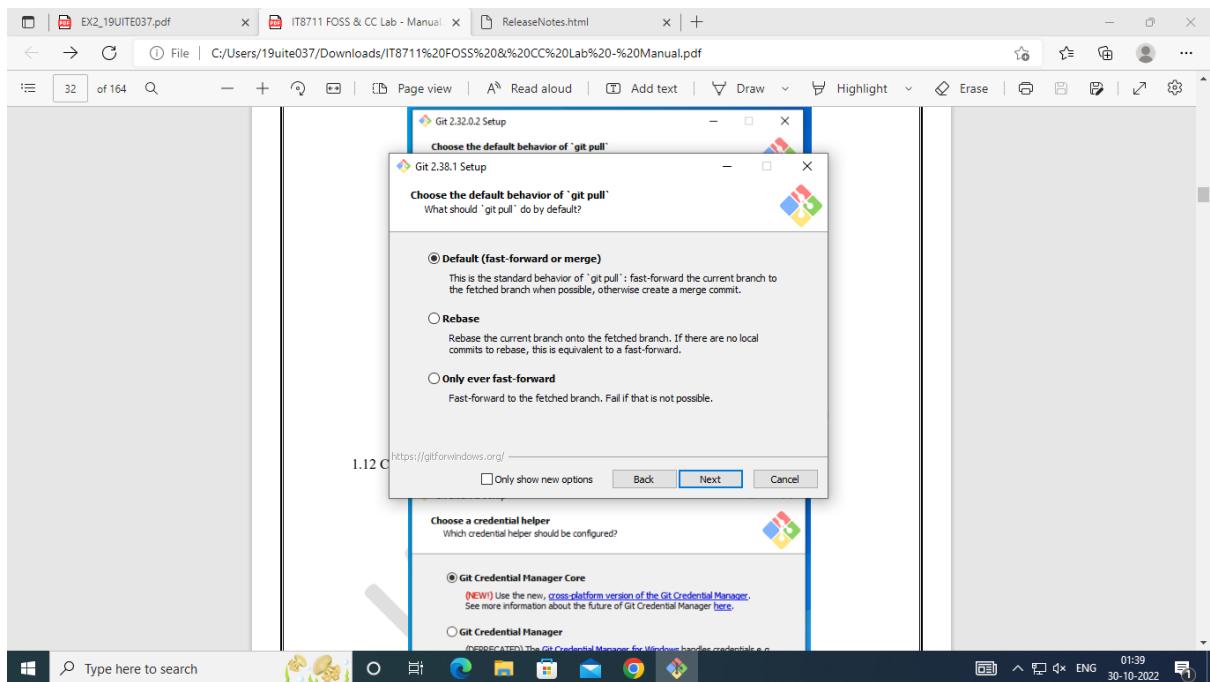
EX NAME : Source Code Management using Git

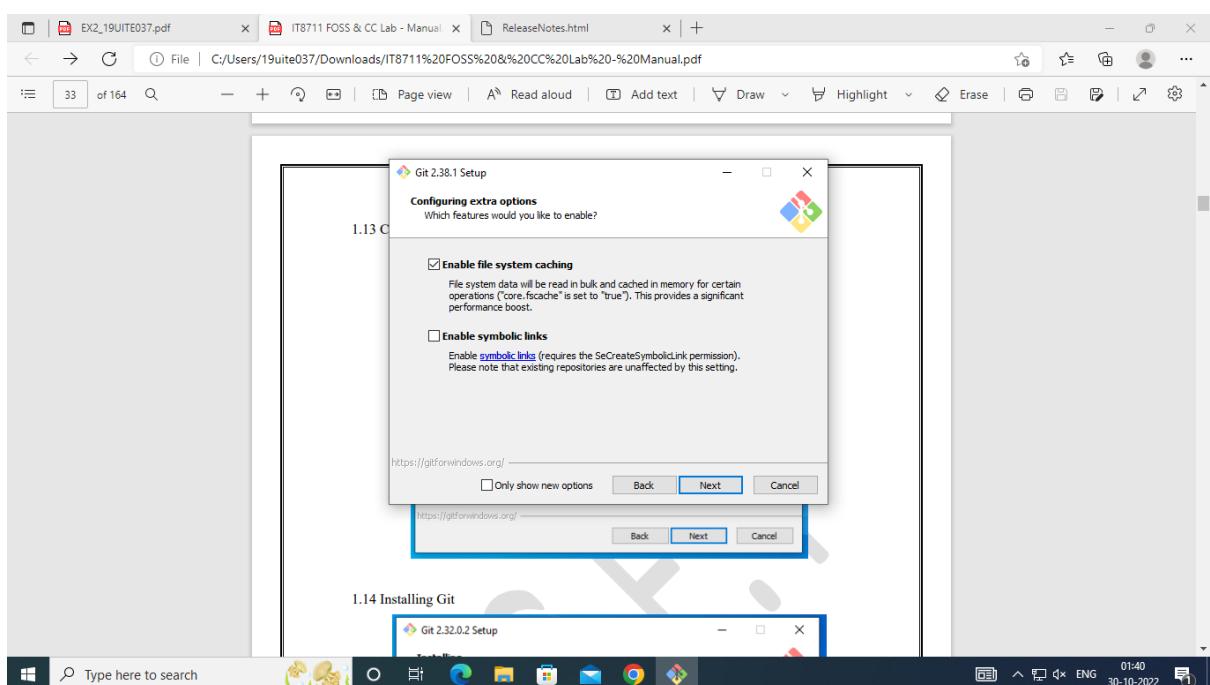
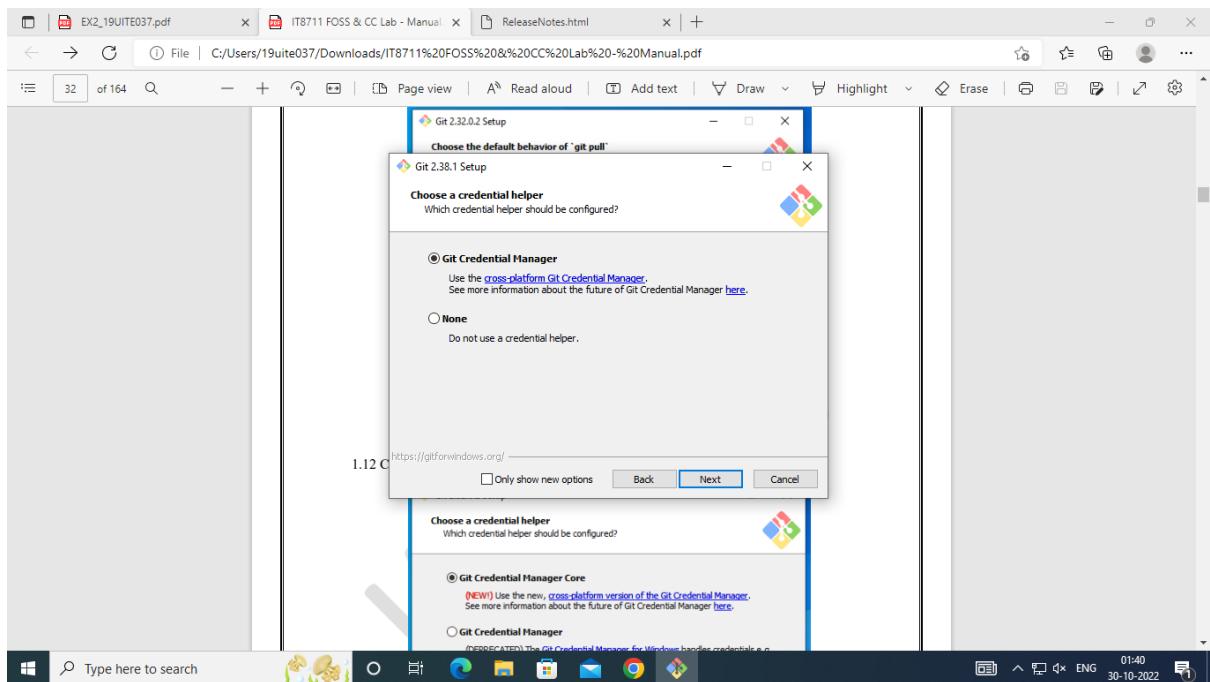


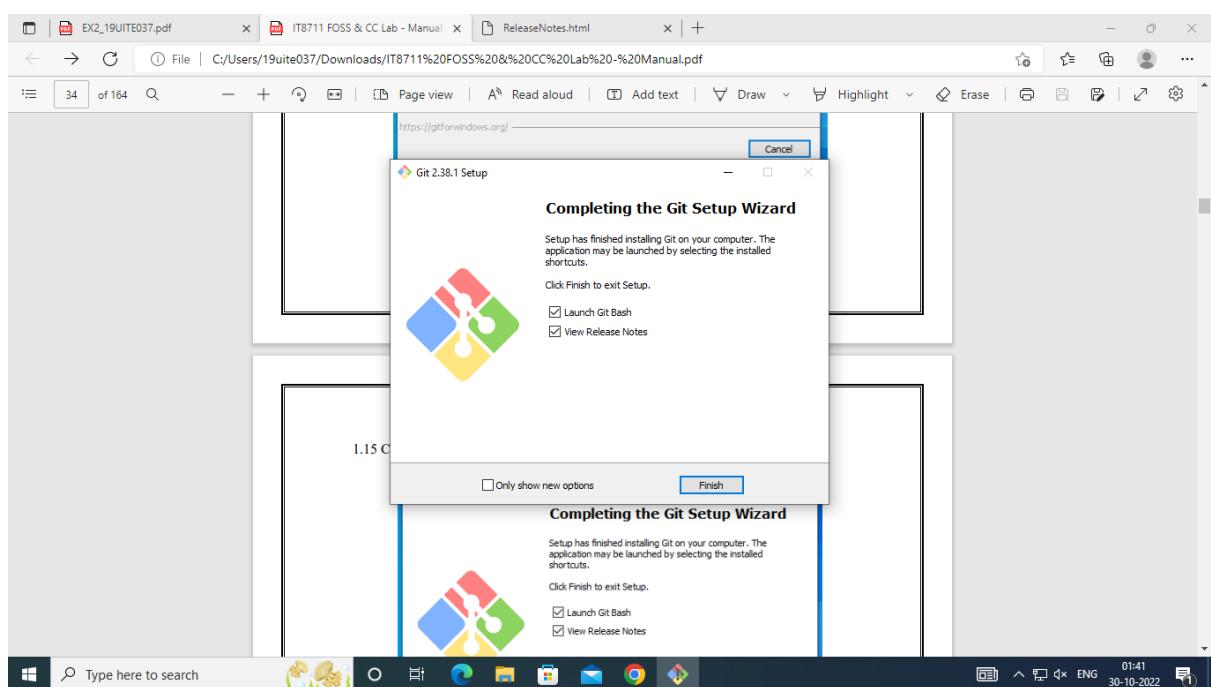
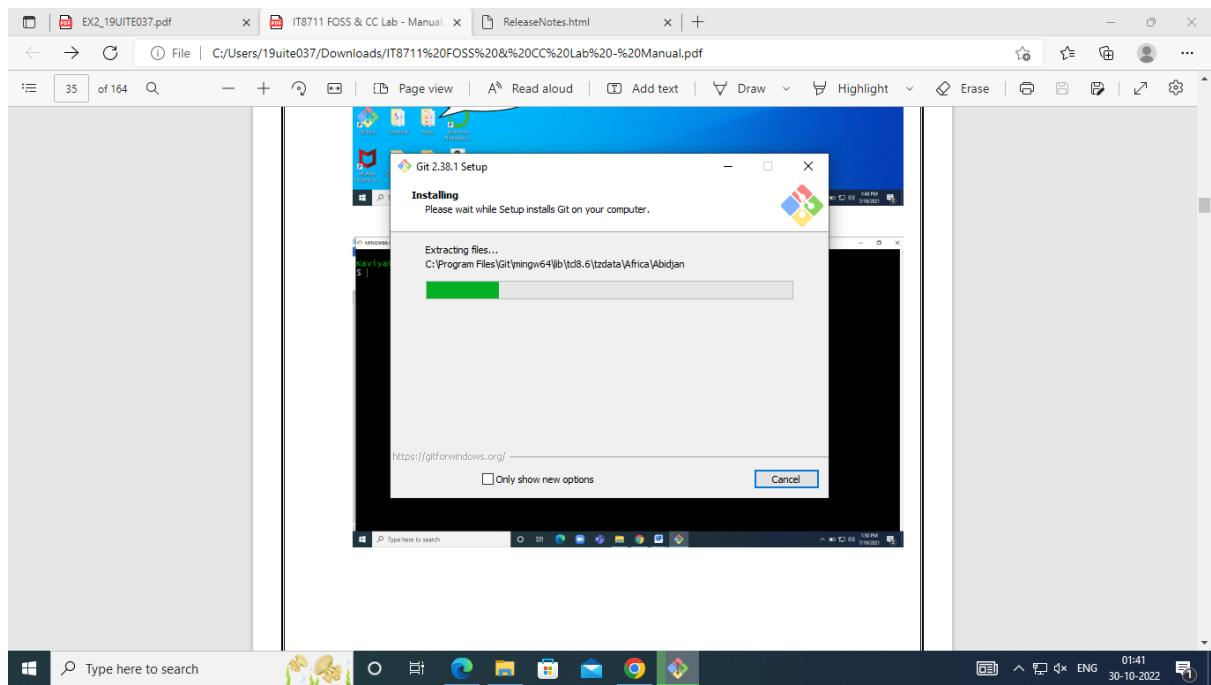








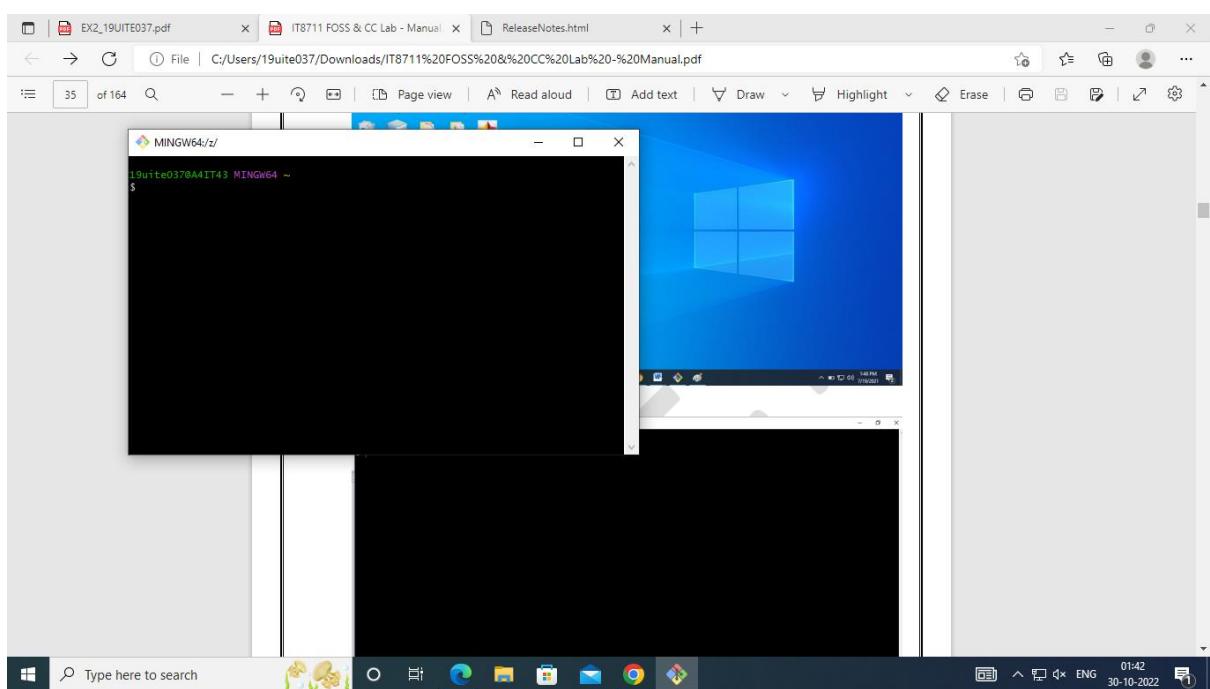




The screenshot shows a Microsoft Edge browser window with three tabs open:

- EX2_19UIITE037.pdf
- IT8711 FOSS & CC Lab - Manual
- ReleaseNotes.html

The main content area displays the "Git for Windows v2.38.1 Release Notes". It features a logo with four colored squares (blue, yellow, red, green) and a central white icon. The title "Git for Windows v2.38.1 Release Notes" is at the top, followed by the text "Latest update: October 18th 2022". A large blue header bar contains the word "Introduction". Below it, a paragraph of text provides information about reporting bugs and using the mailing list. There are two sections with blue headers: "Known issues" and "Licenses".



```
MINGW64/z
19uite037@A4IT43 MINGW64 ~
$ ls
EX_1_Diffie_Hellman.docx
EX_1_Diffie_Hellman.pdf
EX_11_SHA.docx
EX_11_SHA.pdf
EX_12_DSS.docx
EX_12_DSS.pdf
EX_1_Cipher.docx
EX_1_Cipher.pdf
EX_2_playfair.docx
EX_2_playfair.pdf
EX_3_Vigenere.docx
EX_3_Vigenere.pdf
EX_5_rowcolumn.docx
EX_5_rowcolumn.pdf
EX_7_DES.docx
EX_7_DES.pdf
EX_8_AES.docx
EX_8_AES.pdf
EX_9_RSA.docx
EX_9_RSA.pdf
Ex_2.docx
Ex_4_Railfence.docx
Ex_4_Railfence.pdf
'Hand CIPHER output.docx'
'Hand CIPHER output.pdf'
'IT8711_FOSS AND CLOUD COMPUTING LAB/'

19uite037@A4IT43 MINGW64 ~
$ git config --global user.name "19uite037"

```

```
MINGW64/z
EX_2_playfair.docx
EX_2_playfair.pdf
EX_3_Vigenere.docx
EX_3_Vigenere.pdf
EX_5_rowcolumn.docx
EX_5_rowcolumn.pdf
EX_7_DES.docx
EX_7_DES.pdf
EX_8_AES.docx
EX_8_AES.pdf
EX_9_RSA.docx
EX_9_RSA.pdf
Ex_2.docx
Ex_4_Railfence.docx
Ex_4_Railfence.pdf
'Hand CIPHER output.docx'
'Hand CIPHER output.pdf'
'IT8711_FOSS AND CLOUD COMPUTING LAB/'

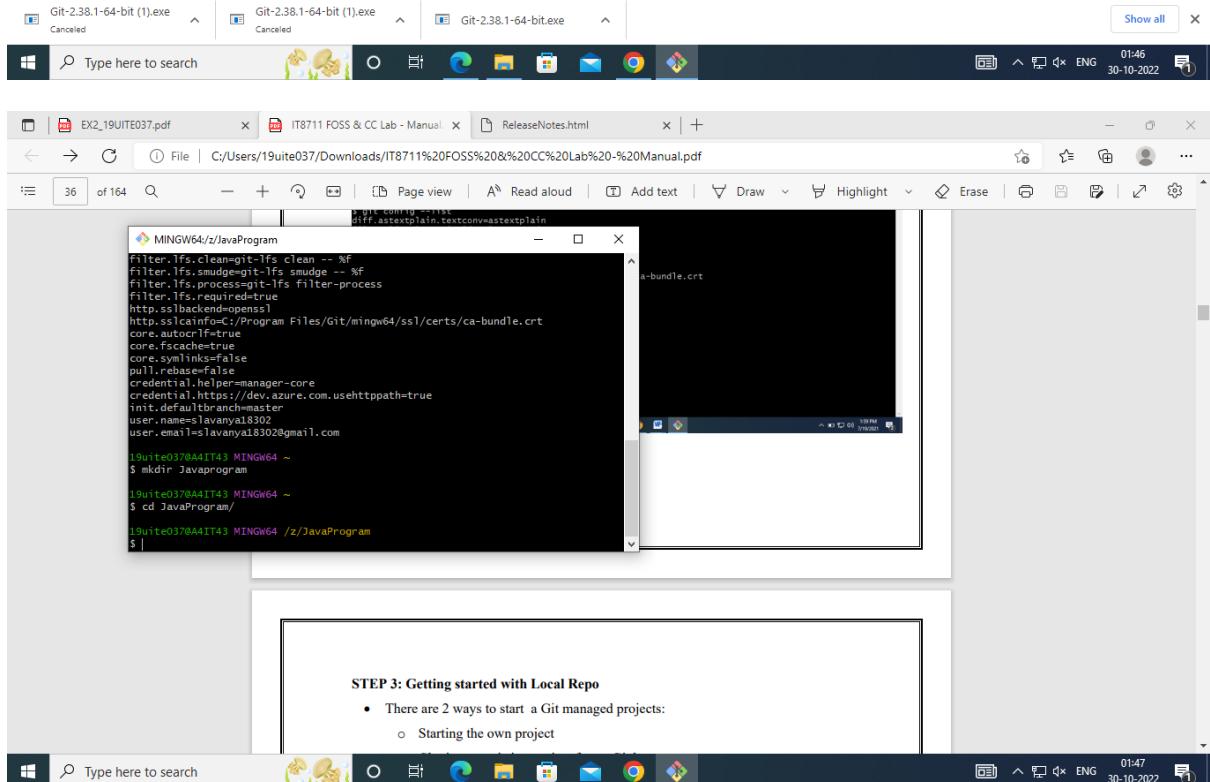
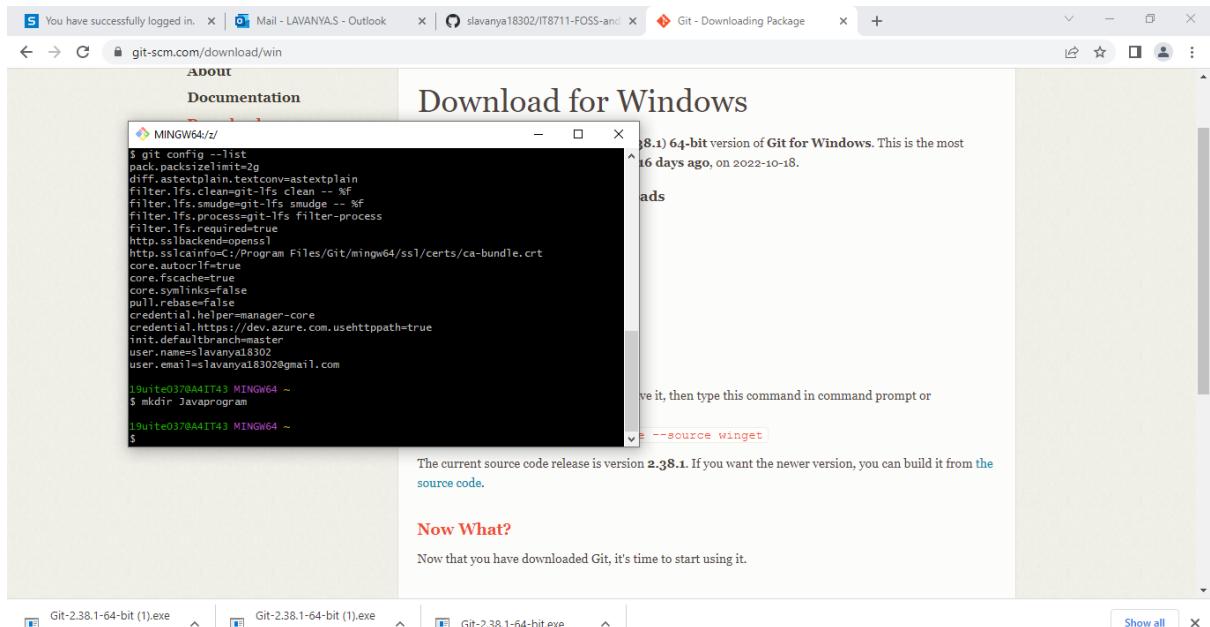
19uite037@A4IT43 MINGW64 ~
$ git config --global user.name "19uite037"

19uite037@A4IT43 MINGW64 ~
$ git config --global user.name "slavanya18302"

19uite037@A4IT43 MINGW64 ~
$ git config --global user.email "slavanya18302@gmail.com"

19uite037@A4IT43 MINGW64 ~
$ git config --list
pack.packsizeLimit=2g
diff.astextplain.textconv=astextplain
filter.lfs.clean=git-lfs clean -- %f
filter.lfs.smudge=git-lfs smudge -- %f
filter.lfs.process=git-lfs filter-process
filter.lfs.required=true
http.sslbackend=openssl
http.sslcainfo=C:/Program Files/Git/mingw64/certs/ca-bundle.crt
core.autocrlf=true
core.fscache=true
core.symlinks=false
pull.rebase=false
credential.helper=manager--core
credential.http://dev.azure.com/usehttppath=true
init.defaultbranch=master
user.name=slavanya18302
user.email=slavanya18302@gmail.com

19uite037@A4IT43 MINGW64 ~
$ |
```



The screenshot shows a Windows desktop environment with several open windows:

- A PDF viewer window titled "EX2_19UITE037.pdf" is visible at the top.
- An application window titled "MINGW64/z/JavaProgram" contains Java code for a "Hello" class.
- A text editor window titled "ReleaseNotes.html" is also present.
- A terminal window titled "MINGW64/c/Users/Administrator/JavaProgram" shows the command "ls" being run, listing "Hello.java".
- The taskbar at the bottom includes icons for File Explorer, Task View, Edge browser, File Explorer, Mail, Google Chrome, and Visual Studio Code.
- The system tray shows the date and time as "01-10-2022 01:53".

The terminal window content is as follows:

```
Administrator@AIT27 MINGW64 ~/JavaProgram
$ ls
Hello.java
```

3.2 Create a source file “Hello.java” → \$ vi Hello.java

```
Hello.java
public class Hello
{
    public static void main (String args[])
}
```

```
main (String args[])
{
    t.println("Hello, world from GIT");
}
```

```
A4IT27+Administrator@A4IT27 MINGW64 ~/JavaProgram
$ ls
Hello.java

A4IT27+Administrator@A4IT27 MINGW64 ~/JavaProgram
$ export PATH=$PATH:"C:\Program Files\Java\jdk1.8

A4IT27+Administrator@A4IT27 MINGW64 ~/JavaProgram
$ |
```

3.4 Compile the “Hello.java” into “Hello.class”

The screenshot shows a Windows desktop environment with several open windows:

- Terminal Window:** MINGW64/z/JavaProgram. It displays the output of a "git status" command, showing untracked files: Hello.class and Hello.java.
- Browser Window:** ReleaseNotes.html. It contains a section titled "4.2 Staging File Changes for Tracking → S git status". Below it is another terminal window showing the same "git status" output as the first one.
- Search Bar:** Type here to search, located at the bottom left of the screen.

The screenshot shows a Windows desktop with four terminal windows open in a tiled arrangement:

- Top Left Terminal:** MINGW64/z/JavaProgram. It shows the creation of a file named Hello.java and its addition to the git index.
- Top Right Terminal:** MINGW64 ~/JavaProgram (master). It displays the output of the command \$ git status, which includes a note about the LF character being replaced by CRLF.
- Bottom Left Terminal:** MINGW64 /z/JavaProgram (master). It shows the addition of the Hello.java file to the repository.
- Bottom Right Terminal:** MINGW64/c/Users/Administrator/JavaProgram. It shows the creation of the Hello.java file and its addition to the git index.

The taskbar at the bottom includes icons for File Explorer, Task View, Start, and a search bar. The system tray shows battery level, network connection, volume, and system status.

The screenshot shows a Windows desktop environment with several open windows. The main window is a terminal session titled 'MINGW64/z/JavaProgram' showing a git commit history:

```
19uite0370A4IT43 MINGW64 /z/JavaProgram (master)
$ git commit -m "First commit"
[master (root-commit) f1fe27d] First commit
 1 file changed, 7 insertions(+)
 create mode 100644 Hello.java

19uite0370A4IT43 MINGW64 /z/JavaProgram (master)
$ git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    Hello.class
    "Hello.java"
    "Hello.java"
    "Hello.java"
    "Hello.java"
    "Hello.java"
    "Hello.java"
nothing added to commit but untracked files present (use "git add" to track)

19uite0370A4IT43 MINGW64 /z/JavaProgram (master)
$
```

Below this window is a smaller terminal window titled 'MINGW64 ~/JavaProgram (master)' showing a single commit:

```
MINGW64 ~/JavaProgram (master)
$ git log
[5] First commit
 1 file changed, 7 insertions(+)
 create mode 100644 Hello.java

A4IT27+Administrator@A4IT27 MINGW64 ~/JavaProgram (master)
$ git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    Hello.class

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

At the bottom left, there is a search bar with the placeholder 'Type here to search'. The taskbar at the bottom includes icons for File Explorer, Edge browser, File Manager, Mail, and Google Chrome.

The screenshot shows a Windows desktop environment. In the center is a terminal window titled "MINGW64/z/JavaProgram" displaying a git log output. The log shows a single commit from "slavyanya18302@gmail.com" on Sun Oct 30 02:08:18 2022 +0530, with the message "First commit". Below this, the command "\$ git log --stat" is run again, showing the same commit with the addition "1 file changed, 7 insertions(+)".

At the top of the screen, there are several browser tabs open, including "EX2_19UITE037.pdf", "IT8711 FOSS & CC Lab - Manual", and "ReleaseNotes.html".

At the bottom of the screen, the taskbar displays various pinned icons and the system clock shows the date as "20.10.2022" and the time as "02:08".


```
19uite0378A4IT43 MINGW64 ~/z/JavaProgram (master)
$ git diff

19uite0378A4IT43 MINGW64 ~/z/JavaProgram (master)
$ git diff --staged
diff --git a/bHello.class b/bHello.class
new file mode 100644
index 0000000..7aeccb
Binary files /dev/null and b/bHello.class differ
diff --git a/Hello.java b/Hello.java
index f8694c2..423b92c 100644
--- a/Hello.java
+++ b/Hello.java
@@ -3,5 +3,6 @@ public class Hello
    public static void main(String args[])
    {
        System.out.println("Hello,world from GIT");
+       System.out.println("Changes after First commit");
    }
}

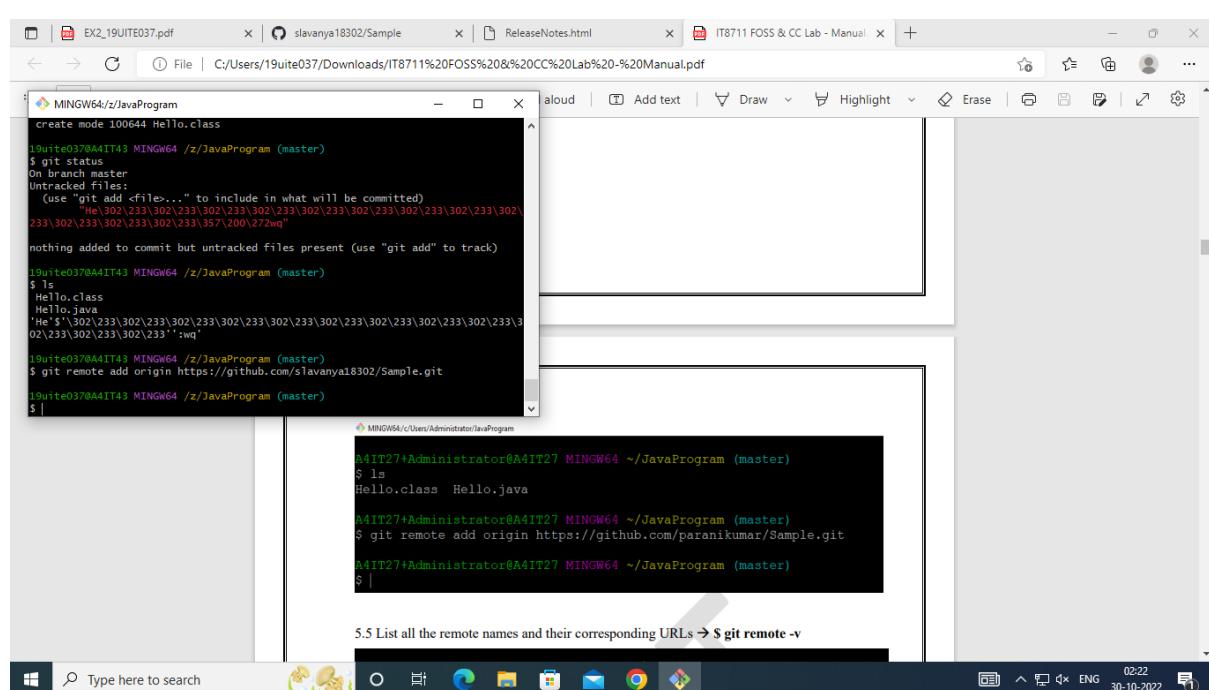
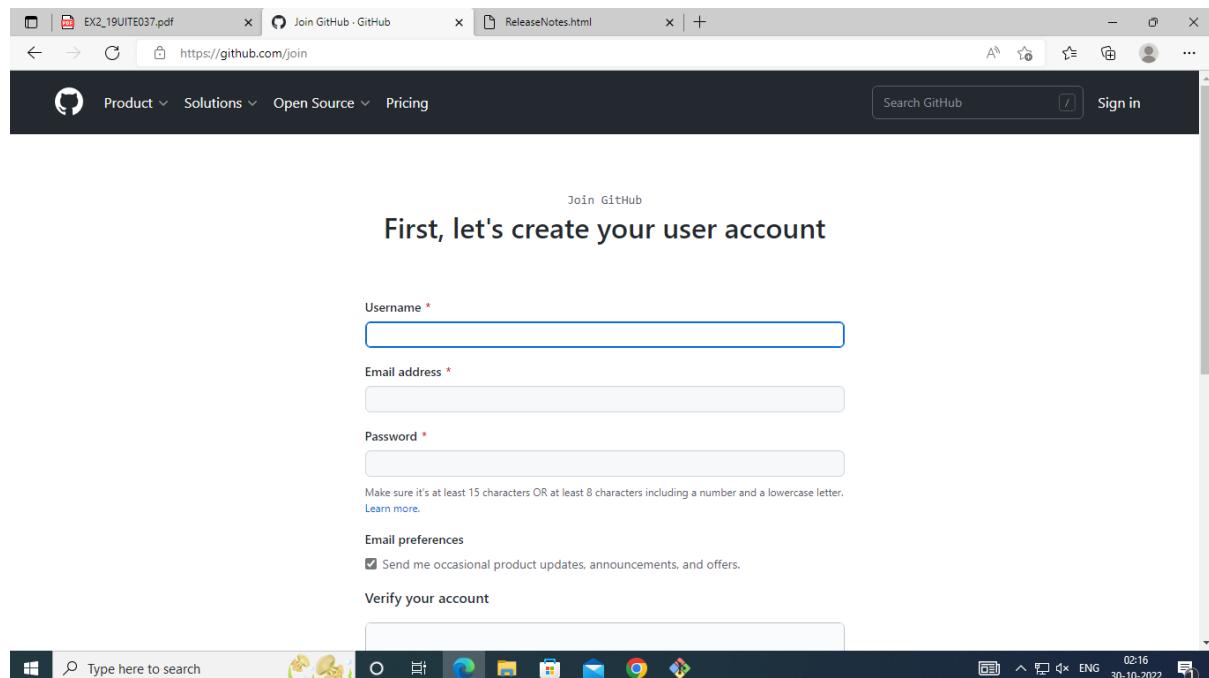
19uite0378A4IT43 MINGW64 ~/z/JavaProgram (master)
$
```

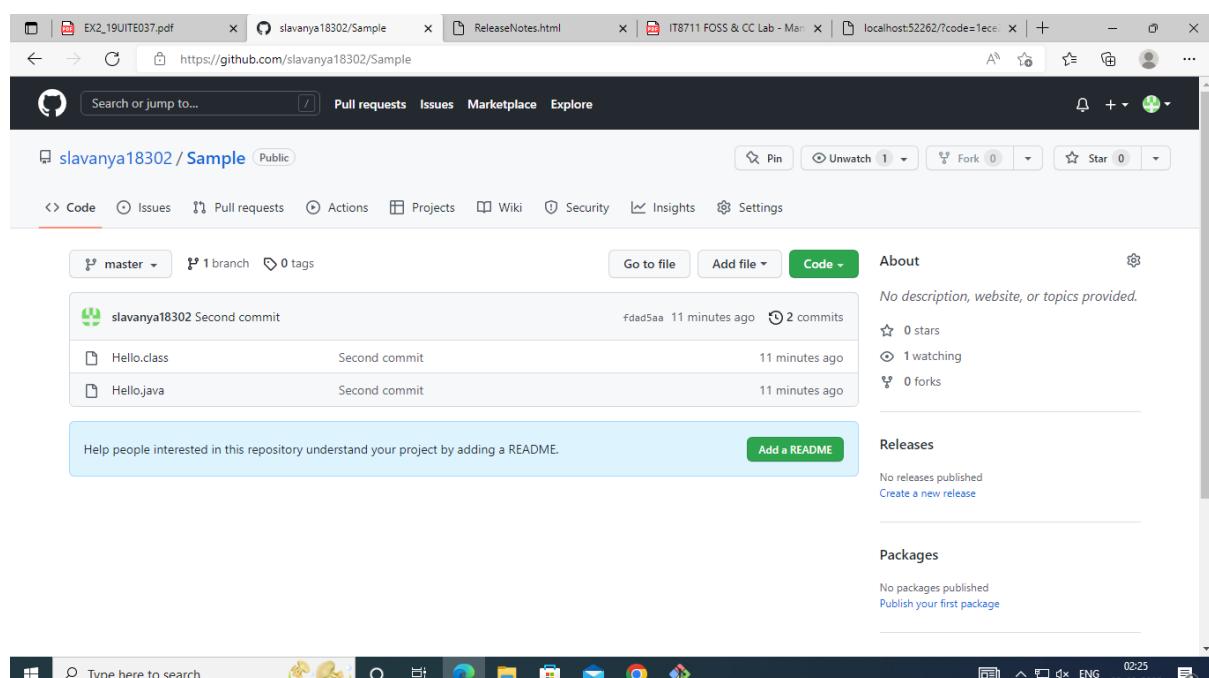
4.10 Show changes to files in the "staged area" → \$ git diff --staged

```
A4IT27 MINGW64 ~/z/JavaProgram (master)
$ git diff --staged
A4IT27 MINGW64 ~/z/JavaProgram (master)
$ git diff --staged
diff --git a/bHello.class b/bHello.class
new file mode 100644
index 0000000..1d927d0
Binary files /dev/null and b/bHello.class differ
diff --git a/Hello.java b/Hello.java
index 860cac9..53486de 100644
--- a/Hello.java
+++ b/Hello.java
@@ -3,5 +3,6 @@ public class Hello
    public static void main(String[] args)
    {
        System.out.println("Hello,world from GIT");
    }
}
```

The screenshot shows a Windows desktop environment with several open windows:

- A browser window titled "EX_19UITE037.pdf" containing the URL "C:/Users/19uite037/Downloads/IT8711%20FOSS%20&%20CC%20Lab%20-%20Manual.pdf".
- An "aloud" application window with a toolbar.
- Two terminal windows:
 - MINGW64/z/JavaProgram: Shows the output of a git diff command comparing the file "Hello.java" between two commits. The first commit (100644) contains the code: `System.out.println("Hello, world from GIT");` and `System.out.println("Changes after First commit");`. The second commit (100644) contains the same code as the first. The output highlights the changes in red.
 - MINGW64 ~/JavaProgram (master): Shows the Java code for "Hello.java": `public class Hello { public static void main(String args[]) { System.out.println("Hello, world from GIT!"); System.out.println("Changes after First commit!"); } }
- Another terminal window at the bottom:
 - A4IT27+Administrator@A4IT27 MINGW64 ~/JavaProgram (master)
 - \$ git commit -m "Second commit"
 - [master 3260c8d] Second commit
 - 2 files changed, 1 insertion(+)
 - create mode 100644 Hello.class
- A PDF viewer window titled "ReleaseNotes.html" showing the content of the downloaded manual.





The screenshot shows a Windows desktop environment with a taskbar at the bottom. There are several browser tabs open in the background. The active tab is a GitHub repository page for 'slavanya18302/Sample'. The page displays the 'Code' tab, specifically the 'master' branch. It shows two commits:

- Second commit** (fdad5aa) by slavanya18302 committed 11 minutes ago.
- First commit** (f1fe27d) by slavanya18302 committed 17 minutes ago.

Below the commits are 'Newer' and 'Older' buttons. At the bottom of the GitHub page, there are links to Terms, Privacy, Security, Status, Docs, Contact GitHub, Pricing, API, Training, Blog, and About.

The screenshot shows a Windows desktop environment with a taskbar at the bottom. The active tab is a GitHub code editor for the 'Sample / Hello.java' file in the 'master' branch of the 'slavanya18302/Sample' repository. The code is as follows:

```
8 lines (8 sloc) | 167 Bytes
1 public class Hello
2 {
3     public static void main(String args[])
4     {
5         System.out.println("Hello,world from GIT");
6         System.out.println("Changes after First commit");
7     }
8 }
```

The GitHub interface includes a 'Go to file' button and a '...' button. At the top of the GitHub page, there are links to Pull requests, Issues, Marketplace, and Explore. The GitHub footer at the bottom includes links to Terms, Privacy, Security, Status, Docs, Contact GitHub, Pricing, API, Training, Blog, and About.

