



BridgeLabz

Employability Delivered

Get Started with Installations

Linux Installations

- Check Git is Installed in the Terminal Shell – **git –version**
- If not do the following. Check URL - <https://www.atlassian.com/git/tutorials/install-git>
sudo apt-get update
sudo apt-get install git
- Check Java is installed on Terminal Shell – **java –version**
- For Java Installation - <https://exercism.io/tracks/java/installation#linux>. Enter Following Commands
- **sudo apt-get update**
- **sudo apt-get install software-properties-common**
- **sudo add-apt-repository ppa:openjdk-r/ppa**
- **sudo apt-get update**
- **sudo apt-get install openjdk-11-jdk**

Linux Installations

1. From your shell, install Git using apt-get:

```
$ sudo apt-get update  
$ sudo apt-get install git
```

2. Verify the installation was successful by typing `git --version`:

```
$ git --version  
git version 2.9.2
```

3. Configure your Git username and email using the following commands, replacing Emma's name with your own. These details will be associated with any commits that you create:

```
$ git config --global user.name "Emma Paris"  
$ git config --global user.email "eparis@atlassia.com"
```

(verified on: Ubuntu 14, 16 and 18)

1. Install the JDK:

```
$ sudo apt-get update  
$ sudo apt-get install software-properties-common  
$ sudo add-apt-repository ppa:openjdk-r/ppa  
$ sudo apt-get update  
$ sudo apt-get install openjdk-11-jdk
```

After Linux Installations

- Register with Github - <https://github.com/join?source=header-home>
- Configure Git
- **git config --global user.name "Enter Name"**
- **git config --global user.email "Enter Git Registered Email Id"**
- **mkdir TerminalCommands**
- **cd TerminalCommands/**
- **git clone <https://github.com/edurekavivekh/linux-content.git>**
- Change Dir to **cd linux-content/** and do **ls**
- You will see linux_chit_sheet.pdf – for Linux Commands and linux_problem_sheet.pdf – to solve problems using linux commands

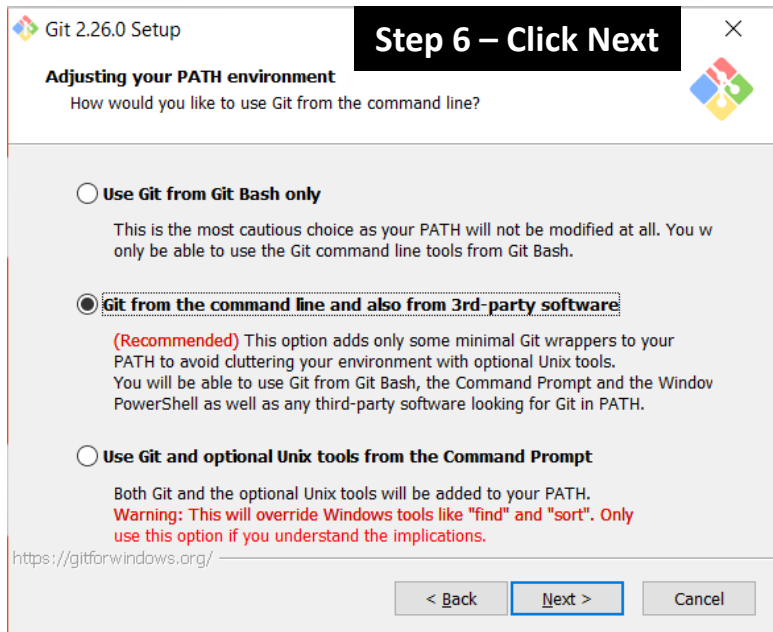
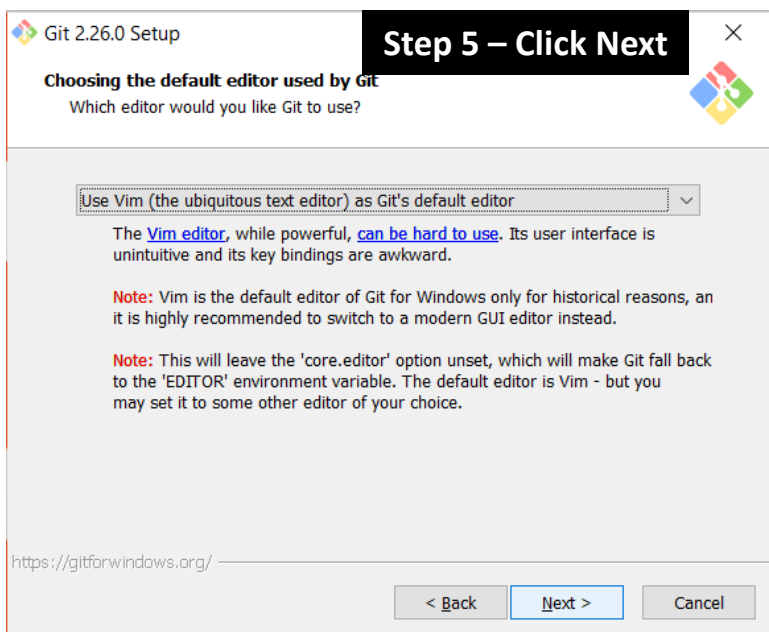
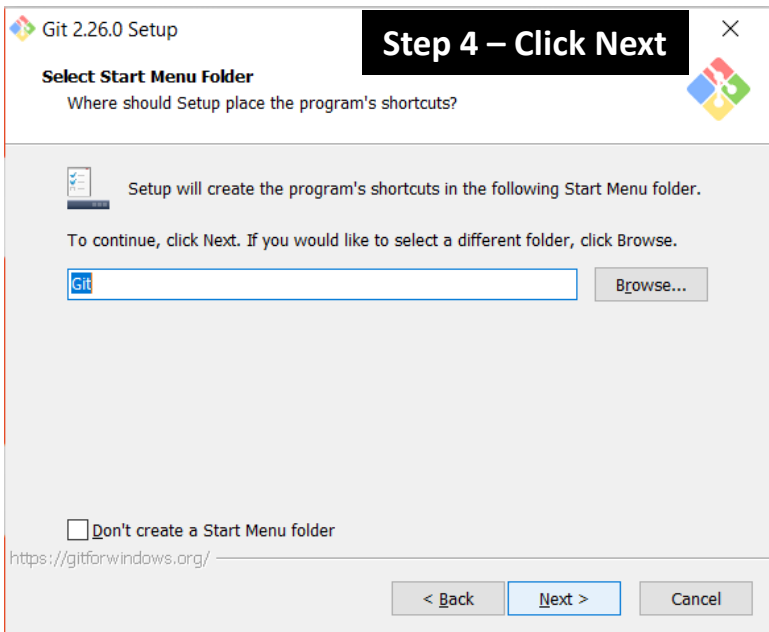
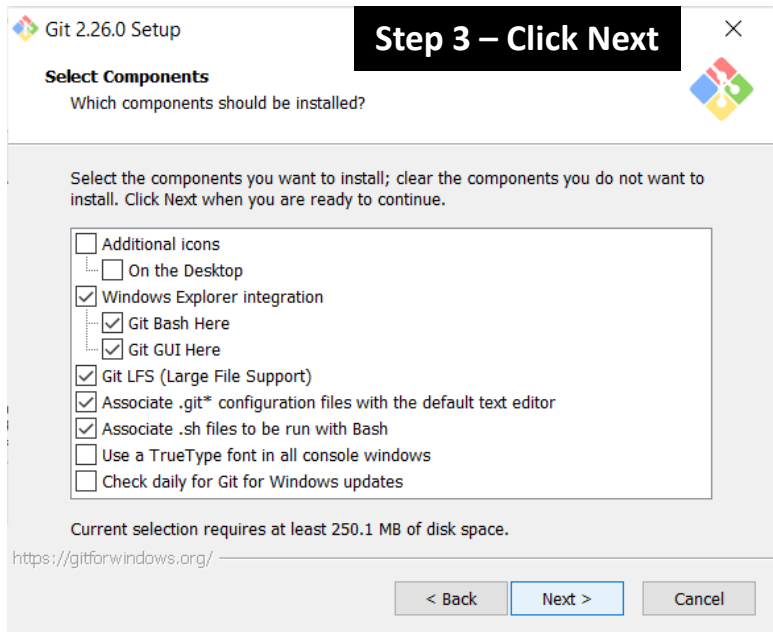
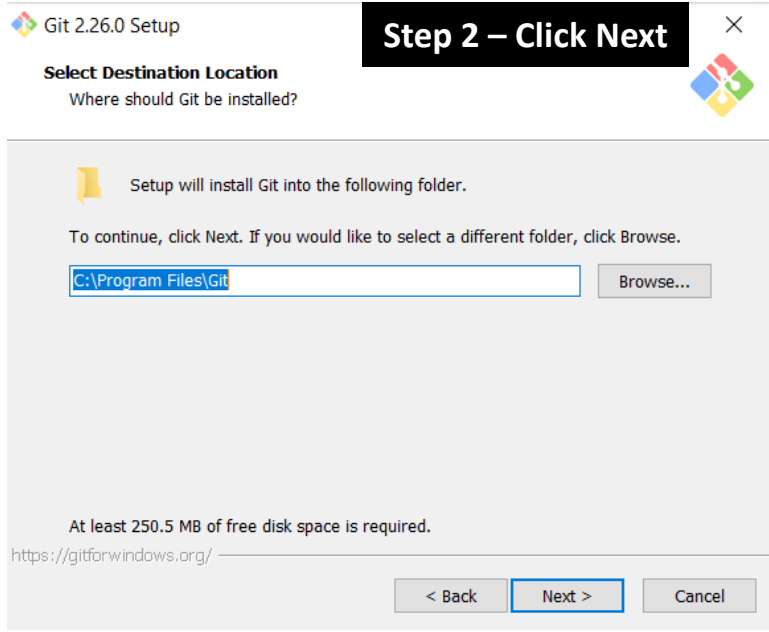
Windows Installations

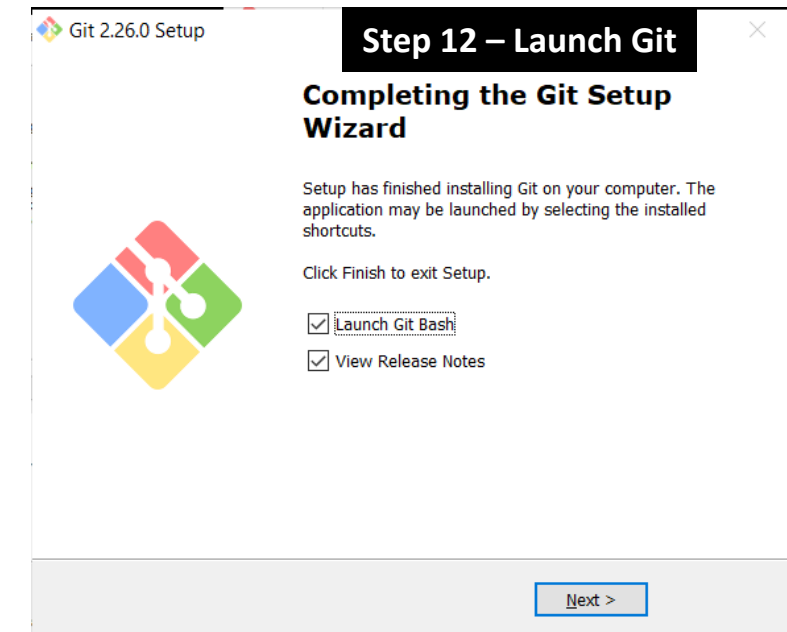
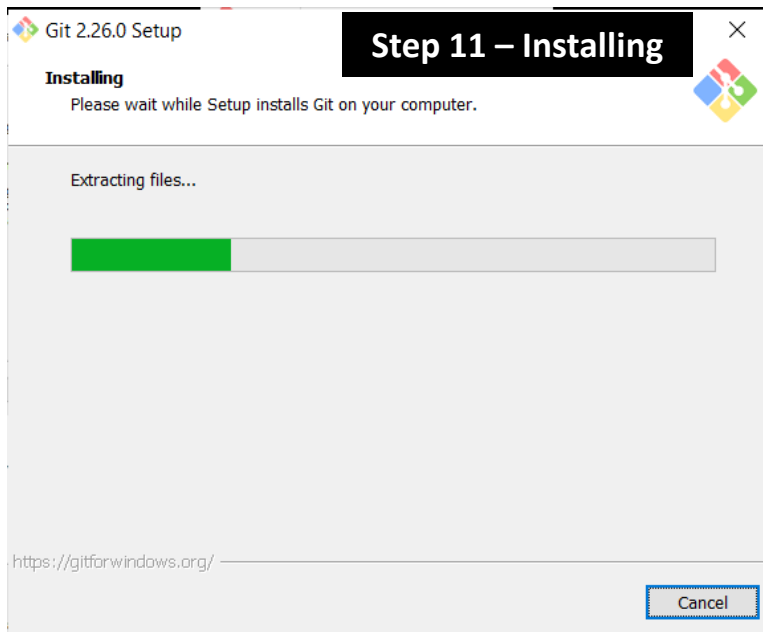
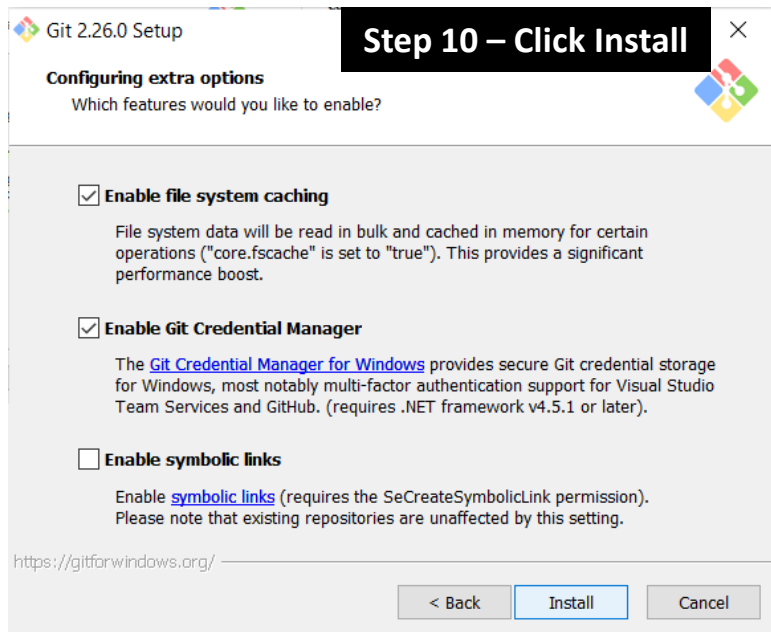
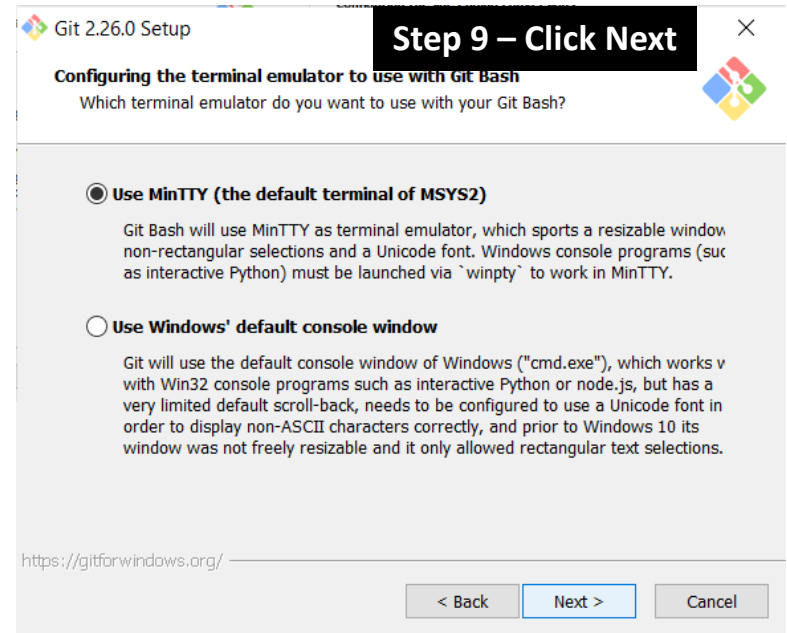
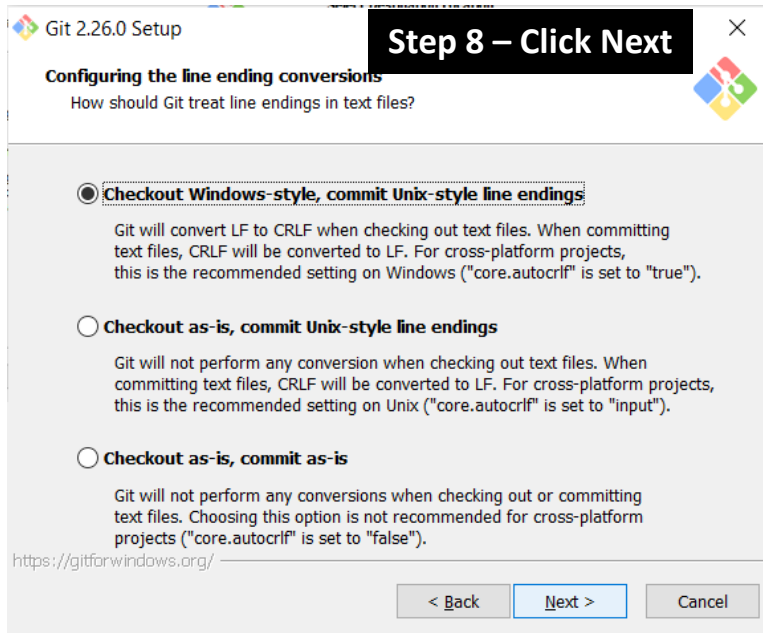
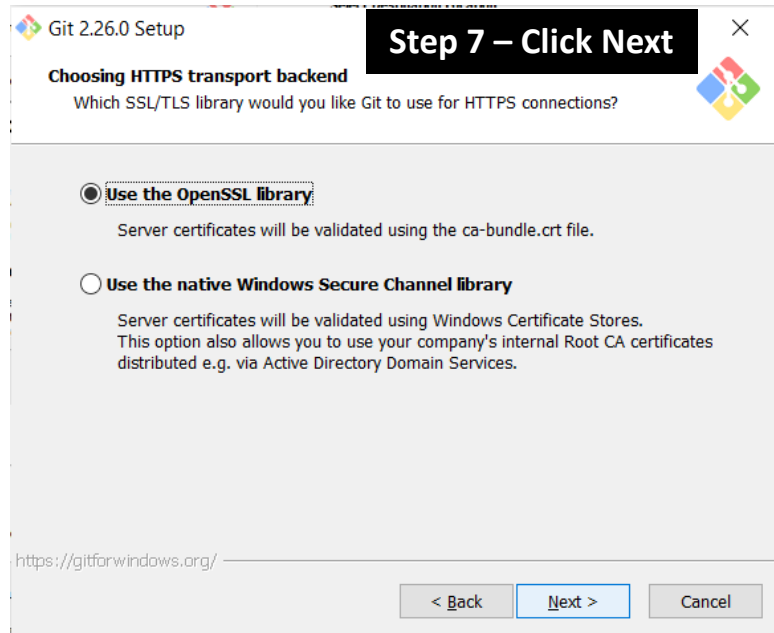
Guidelines

Download Git for Windows



<https://gitforwindows.org/>





Download Git for Windows

Installing Java

Installing Java

In addition to the exercism CLI and your favorite text editor, practicing with Exercism exercises in Java requires:

- the **Java Development Kit (JDK)** — which includes both a Java Runtime *and* development tools (most notably, the Java compiler); and
- **Gradle** — a build tool specifically for Java projects.

Choose your operating system:

- [Windows](#)
- [macOS](#)
- [Linux](#)

... or ...

- if you prefer to not use a package manager, you can [install manually](#).

Optionally, you can also use a [Java IDE](#).

Windows

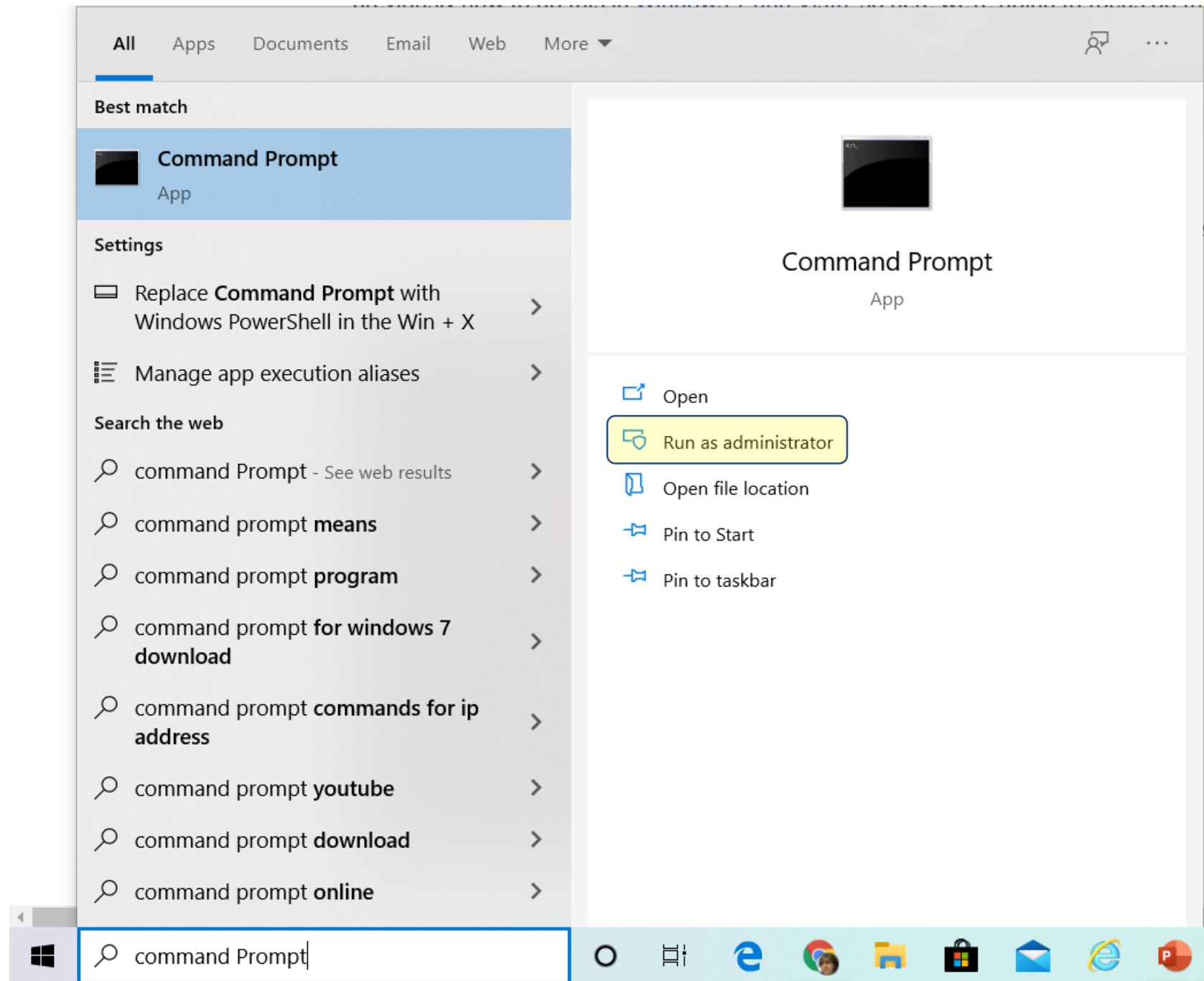
Open an administrative command prompt. (If you need assistance opening an administrative prompt, see [open an elevated prompt in Windows 8+](#) (or [Windows 7](#)).

1. If you have not installed Chocolatey, do so now:



<https://exercism.io/tracks/java/installation#windows>

Step 1: Open Administrator Command Prompt



Install Chocolatey

```
Select Administrator: Command Prompt

Microsoft Windows [Version 10.0.18362.657]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Windows\system32>@powershell -NoProfile -ExecutionPolicy unrestricted -Command "iex ((new-object net.webclient).DownloadString('https://chocolatey.org/install.ps1'))" && SET PATH=%PATH%;%ALLUSERSPROFILE%\chocolatey\bin

C:\Windows\system32>choco install openjdk11
```

Step 1: Open Administrator Command Prompt => [Click URL](#)

Step 2: Install Chocolatey by coping the following command into the Command Prompt

```
@powershell -NoProfile -ExecutionPolicy
unrestricted -Command "iex ((new-object
net.webclient).DownloadString('https://choc
olatey.org/install.ps1'))" && SET
PATH=%PATH%;%ALLUSERSPROFILE%\chocol
atey\bin
```

Step 3: Copy following command into Command Prompt

```
choco install openjdk11
```

Step 4: Refresh Env using command `refreshenv`

```
Administrator: Command Prompt

Microsoft Windows [Version 10.0.18362.657]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Windows\system32>@powershell -NoProfile -ExecutionPolicy unrestricted -Command "iex ((new-object net.webclient).DownloadString('https://chocolatey.org/install.ps1'))" && SET PATH=%PATH%;%ALLUSERSPROFILE%\chocolatey\bin

Getting latest version of the Chocolatey package for download.
Getting Chocolatey from https://chocolatey.org/api/v2/package/chocolatey/0.10.15.
Extracting C:\Users\naray\AppData\Local\Temp\chocolatey\chocInstall\chocolatey.zip to C:\Users\naray\AppData\Local\Temp\chocolatey\chocInstall...
Installing chocolatey on this machine
Creating ChocolateyInstall as an environment variable (targeting 'Machine')
Setting ChocolateyInstall to 'C:\ProgramData\chocolatey'
WARNING: It's very likely you will need to close and reopen your shell
before you can use choco.
Restricting write permissions to Administrators
We are setting up the Chocolatey package repository.
The packages themselves go to 'C:\ProgramData\chocolatey\lib'
(i.e. C:\ProgramData\chocolatey\lib\yourPackageName).
A shim file for the command line goes to 'C:\ProgramData\chocolatey\bin'
and points to an executable in 'C:\ProgramData\chocolatey\lib\yourPackageName'.

Creating Chocolatey folders if they do not already exist.

WARNING: You can safely ignore errors related to missing log files when
upgrading from a version of Chocolatey less than 0.9.9.
'Batch file could not be found' is also safe to ignore.
'The system cannot find the file specified' - also safe.
chocolatey.nupkg file not installed in lib.
Attempting to locate it from bootstrapper.
PATH environment variable does not have C:\ProgramData\chocolatey\bin in it. Adding...
WARNING: Not setting tab completion: Profile file does not exist at
'C:\Users\naray\Documents\WindowsPowerShell\Microsoft.PowerShell_profile.ps1'.
Chocolatey (choco.exe) is now ready.
You can call choco from anywhere, command line or powershell by typing choco.
Run choco /? for a list of functions.
You may need to shut down and restart powershell and/or consoles
first prior to using choco.
Ensuring chocolatey commands are on the path
Ensuring chocolatey.nupkg is in the lib folder

C:\Windows\system32>
```

Installation of Java 11

Step 5: Check Java Installation. Copy Command `java -version`



```
Administrator: Command Prompt
C:\Windows\system32>choco install openjdk11
Chocolatey v0.10.15
2 validations performed. 1 success(es), 1 warning(s), and 0 error(s).

Validation Warnings:
- A pending system reboot request has been detected, however, this is
  being ignored due to the current Chocolatey configuration. If you
  want to halt when this occurs, then either set the global feature
  using:
    choco feature enable -name=exitOnRebootDetected
  or pass the option --exit-when-reboot-detected.

Installing the following packages:
openjdk11
By installing you accept licenses for the packages.
Progress: Downloading openjdk11 11.0.6.1... 100%

openjdk11 v11.0.6.1 [Approved]
openjdk11 package files install completed. Performing other installation steps.
The package openjdk11 wants to run 'chocolateyinstall.ps1'.
Note: If you don't run this script, the installation will fail.
Note: To confirm automatically next time, use '-y' or consider:
choco feature enable -n allowGlobalConfirmation
Do you want to run the script?([Y]es/[A]ll - yes to all/[N]o/[P]rint): y

Downloading openjdk11 64 bit
  from 'https://github.com/AdoptOpenJDK/openjdk11-upstream-binaries/releases/download/jdk-11.0.6%2B10/OpenJDK11U-jdk_x64_windows_11.0.6_10.zip'
Progress: 100% - Completed download of C:\Users\naray\AppData\Local\Temp\chocolatey\openjdk11\11.0.6.1\OpenJDK11U-jdk_x64_windows_11.0.6_10.zip (185.74 MB).
Download of OpenJDK11U-jdk_x64_windows_11.0.6_10.zip (185.74 MB) completed.
Hashes match.
Extracting C:\Users\naray\AppData\Local\Temp\chocolatey\openjdk11\11.0.6.1\OpenJDK11U-jdk_x64_windows_11.0.6_10.zip to C:\Program Files\OpenJDK...
C:\Program Files\OpenJDK
PATH environment variable does not have C:\Program Files\OpenJDK\openjdk-11.0.6_10\bin in it. Adding...
Environment Vars (like PATH) have changed. Close/reopen your shell to
see the changes (or in powershell/cmd.exe just type `refreshenv`).
The install of openjdk11 was successful.
Software installed to 'C:\Program Files\OpenJDK'

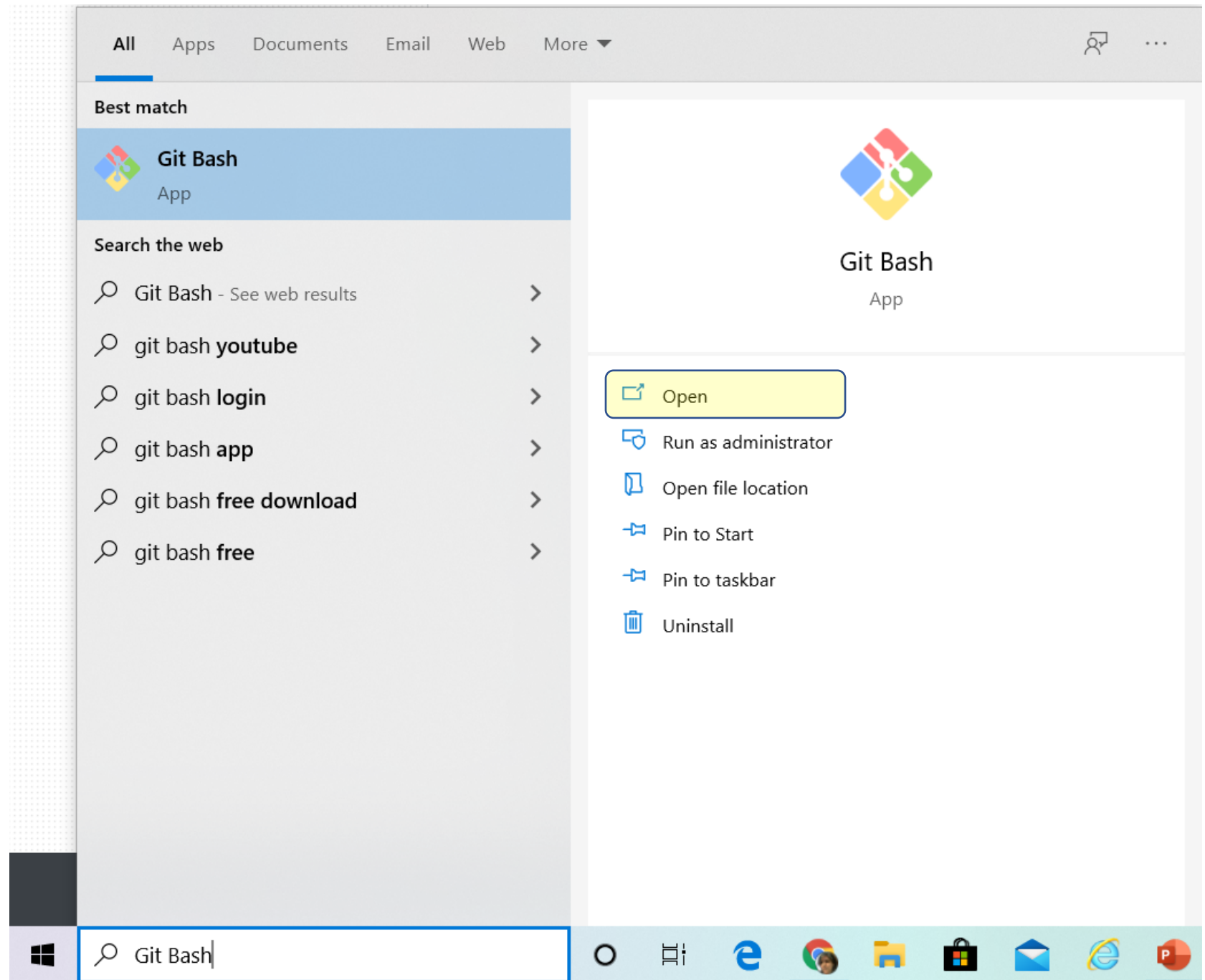
Chocolatey installed 1/1 packages.
See the log for details (C:\ProgramData\chocolatey\logs\chocolatey.log).

C:\Windows\system32>refreshenv
Refreshing environment variables from registry for cmd.exe. Please wait...Finished..

C:\Windows\system32>java -version
openjdk version "11.0.6" 2020-01-14
OpenJDK Runtime Environment 18.9 (build 11.0.6+10)
OpenJDK 64-Bit Server VM 18.9 (build 11.0.6+10, mixed mode)

C:\Windows\system32>
```

Step 6: Open Git Bash



Get Started with Git Bash

Step 7: Show Current Working Directory. Type **pwd**

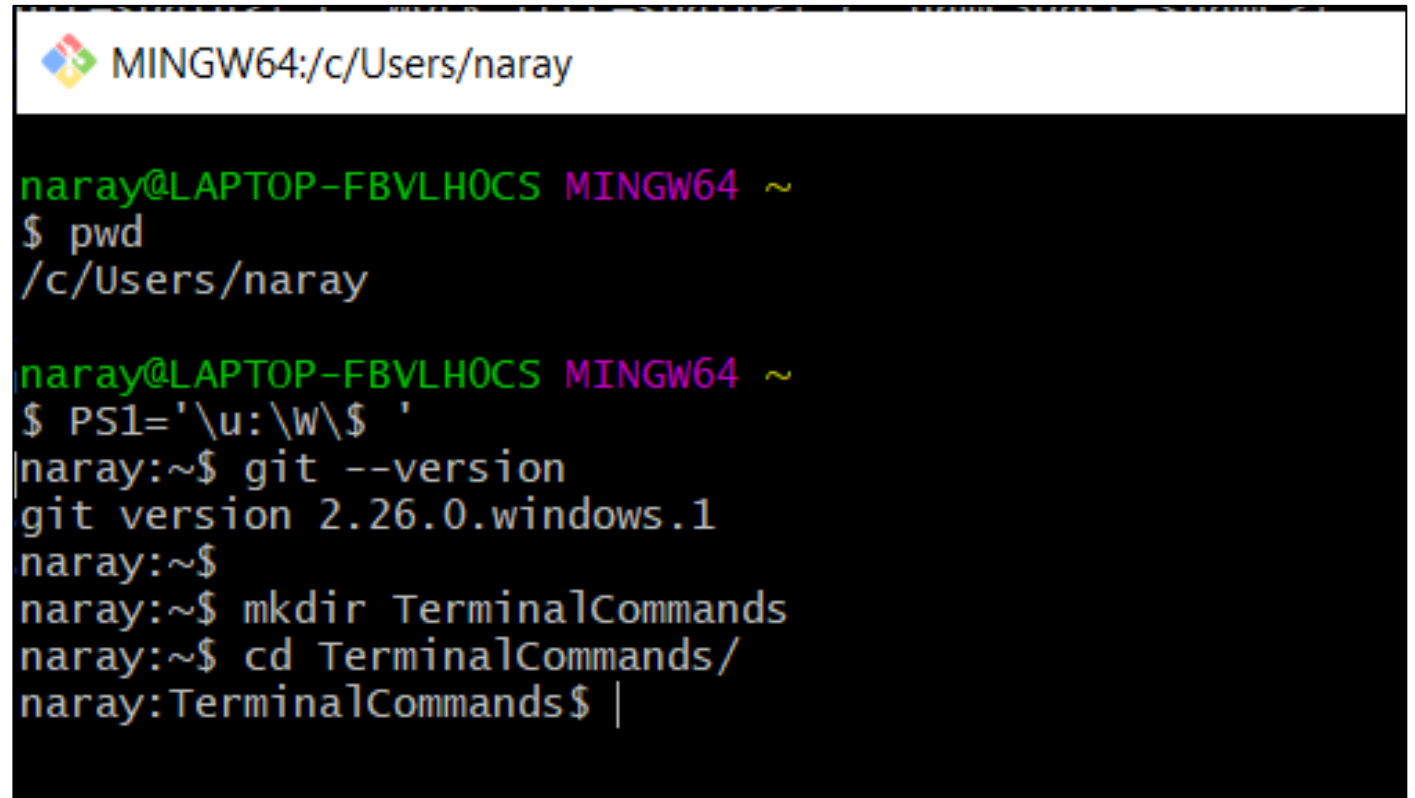
Step 8: Show Current Directory in the Prompt. Type **PS1='\u:\W\\$\ '**

Step 9: Check Git Version. Type **git --version**

Step 10: Create TerminalCommands Directory. **mkdir TerminalCommands**

Step 11: Go to TerminalCommands Directory **cd TerminalCommands/**

Note: **Step 8 and 11** repeat every time you start Git Bash



```
MINGW64:/c/Users/naray

naray@LAPTOP-FBVLH0CS MINGW64 ~
$ pwd
/c/Users/naray

naray@LAPTOP-FBVLH0CS MINGW64 ~
$ PS1='\u:\W\$\ '
naray:~$ git --version
git version 2.26.0.windows.1
naray:~$
naray:~$ mkdir TerminalCommands
naray:~$ cd TerminalCommands/
naray:TerminalCommands$ |
```

After Windows Installations in Git Bash

- Register with Github - <https://github.com/join?source=header-home>
- Configure Git
- **git config --global user.name "Enter Name"**
- **git config --global user.email "Enter Git Registered Email Id"**
- ***mkdir TerminalCommands***
- ***cd TerminalCommands/***
- **git clone <https://github.com/edurekavivekh/linux-content.git>**
- Change Dir to ***cd linux-content/*** and do ***ls***
- You will see linux_chit_sheet.pdf – for Linux Commands and linux_problem_sheet.pdf – to solve problems using linux commands



BridgeLabz

Employability Delivered

Thank you