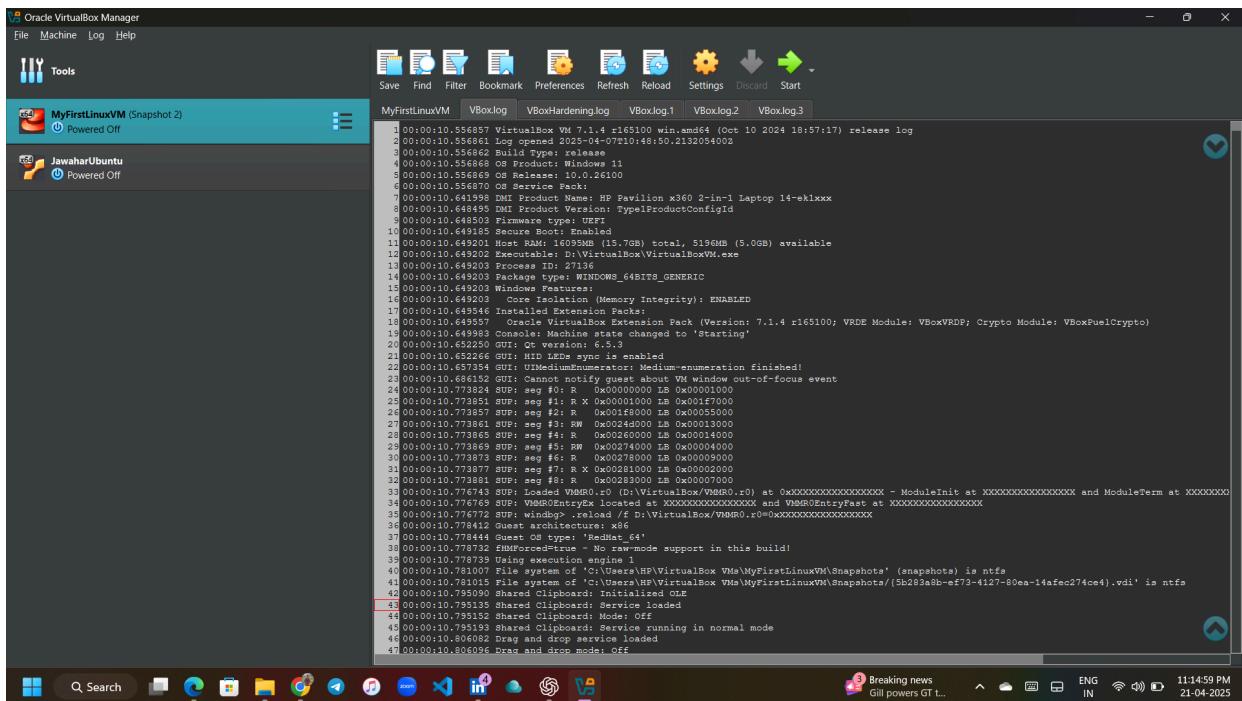


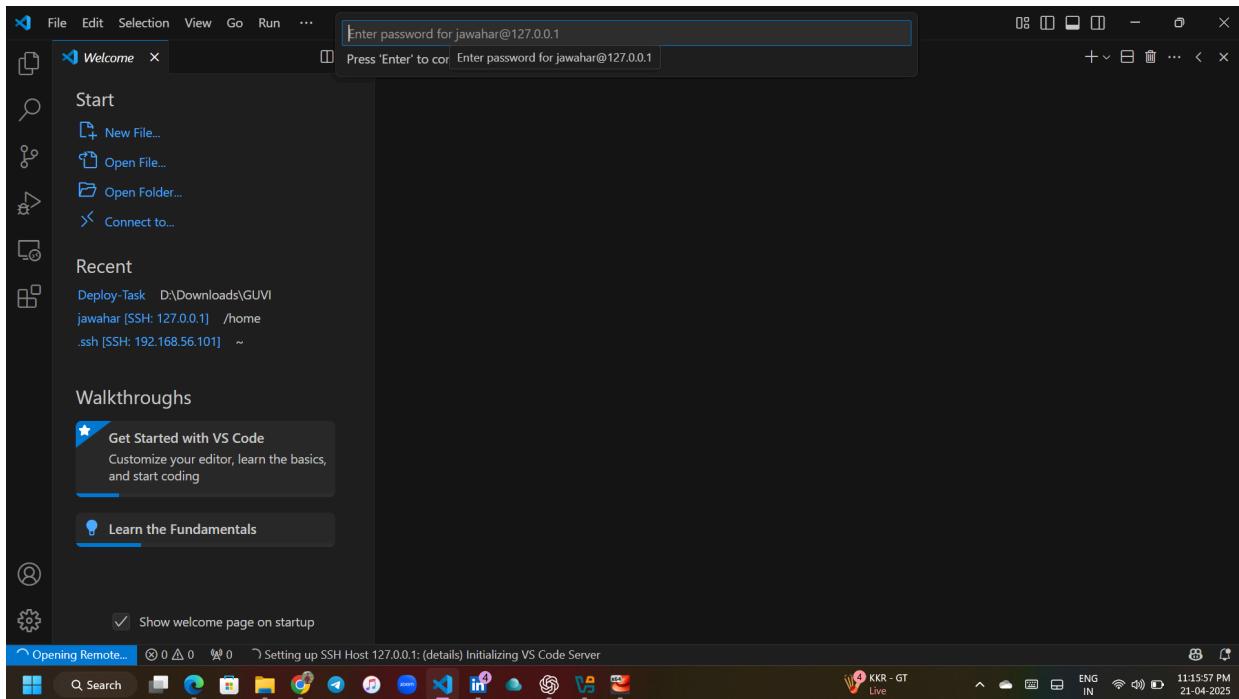
VCS Task

Task Description:

Establish a new directory, populate it with script files, initiate an empty repository on GitHub, convert the local directory into a Git repository, and link it to GitHub for pushing the code into the repository. Perform merge, rebase, stash commands in following github repo.

Screenshots:





```
File Edit Selection View Go Run ... ⏪ ⏩ Search PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
Welcome x Enter password for jawahar@127.0.0.1
Press 'Enter' to continue Enter password for jawahar@127.0.0.1

Start
New File...
Open File...
Open Folder...
Connect to...

Recent
Deploy-Task D:\Downloads\GUVI
jawahar [SSH: 127.0.0.1] /home
ssh [SSH: 192.168.56.101] ~

Walkthroughs
Get Started with VS Code
Customize your editor, learn the basics, and start coding
Learn the Fundamentals

Show welcome page on startup

Opening Remote... Setting up SSH Host 127.0.0.1: (details) Initializing VS Code Server
Windows Search Internet Explorer Google Chrome Microsoft Edge Microsoft Store Microsoft Teams Microsoft Word Microsoft Excel Microsoft Powerpoint Microsoft OneDrive Microsoft Edge Dev Microsoft Edge Live ENG IN 11:15:57 PM 21-04-2025
```

The screenshot shows the Visual Studio Code interface with an SSH connection established to the local host (127.0.0.1). The terminal tab is active, displaying the command "git" being installed via sudo yum. The output shows the package details and dependencies being resolved. The transaction summary indicates the installation of 7 packages. The bottom status bar indicates the connection details: "SSH: 127.0.0.1" and the system tray shows the date and time as 21-04-2025, 11:21:41 PM.

The screenshot shows the Visual Studio Code interface with a terminal window open. The terminal output displays the results of a yum update command on a Red Hat-based system. The output includes transaction details, package installations, and verification steps. The terminal window has tabs for bash, python, and powershell, and shows the current working directory as [jawahar@vbox ~]\$.

```
(6/7): git-core-doc-2.47.1-1.el9.noarch.rpm          1.8 MB/s | 3.0 MB  00:01
(7/7): git-core-2.47.1-1.el9.x86_64.rpm            2.5 MB/s | 4.7 MB  00:01
Total                                         1.1 MB/s | 7.9 MB  00:07
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
Preparing : 1/1
Installing : git-core-2.47.1-1.el9.x86_64           1/7
Installing : git-core-doc-2.47.1-1.el9.noarch        2/7
Installing : perl-lib-0.65-481.el9.x86_64           3/7
Installing : perl-TermReadkey-2.38-11.el9.x86_64    4/7
Installing : perl-Error-1.0.17029-7.el9.noarch       5/7
Installing : perl-Git-2.47.1-1.el9.noarch           6/7
Installing : git-2.47.1-1.el9.x86_64                7/7
Running scriptlet: git-2.47.1-1.el9.x86_64         7/7
Verifying   : git-2.47.1-1.el9.x86_64                1/7
Verifying   : git-core-2.47.1-1.el9.x86_64           2/7
Verifying   : git-core-doc-2.47.1-1.el9.noarch        3/7
Verifying   : perl-Error-1.0.17029-7.el9.noarch       4/7
Verifying   : perl-Git-2.47.1-1.el9.noarch           5/7
Verifying   : perl-TermReadkey-2.38-11.el9.x86_64    6/7
Verifying   : perl-lib-0.65-481.el9.x86_64           7/7
Installed:
git-2.47.1-1.el9.x86_64                  git-core-2.47.1-1.el9.x86_64      git-core-doc-2.47.1-1.el9.noarch
perl-Error-1.0.17029-7.el9.noarch        perl-Git-2.47.1-1.el9.noarch     perl-TermReadKey-2.38-11.el9.x86_64
perl-lib-0.65-481.el9.x86_64
Complete!
[jawahar@vbox ~]$
```

The screenshot shows the Visual Studio Code interface with a terminal window open. The terminal output displays the results of a git --version command. The output shows the version of Git installed on the system. The terminal window has tabs for bash, python, and powershell, and shows the current working directory as [jawahar@vbox ~]\$.

```
1.1 MB/s | 7.9 MB  00:07
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
Preparing : 1/1
Installing : git-2.47.1-1.el9.x86_64                1/7
Installing : git-core-doc-2.47.1-1.el9.noarch        2/7
Installing : perl-lib-0.65-481.el9.x86_64           3/7
Installing : perl-TermReadkey-2.38-11.el9.x86_64    4/7
Installing : perl-Error-1.0.17029-7.el9.noarch       5/7
Installing : perl-Git-2.47.1-1.el9.noarch           6/7
Installing : git-2.47.1-1.el9.x86_64                7/7
Running scriptlet: git-2.47.1-1.el9.x86_64         7/7
Verifying   : git-2.47.1-1.el9.x86_64                1/7
Verifying   : git-core-2.47.1-1.el9.x86_64           2/7
Verifying   : git-core-doc-2.47.1-1.el9.noarch        3/7
Verifying   : perl-Error-1.0.17029-7.el9.noarch       4/7
Verifying   : perl-Git-2.47.1-1.el9.noarch           5/7
Verifying   : perl-TermReadkey-2.38-11.el9.x86_64    6/7
Verifying   : perl-lib-0.65-481.el9.x86_64           7/7
Installed:
git-2.47.1-1.el9.x86_64                  git-core-2.47.1-1.el9.x86_64      git-core-doc-2.47.1-1.el9.noarch
perl-Error-1.0.17029-7.el9.noarch        perl-Git-2.47.1-1.el9.noarch     perl-TermReadKey-2.38-11.el9.x86_64
perl-lib-0.65-481.el9.x86_64
Complete!
[jawahar@vbox ~]$ git --version
git version 2.47.1
[jawahar@vbox ~]$
```

```
git-2.47.1-1.el9.x86_64      git-core-2.47.1-1.el9.x86_64      perl-Git-2.47.1-1.el9.noarch    perl-TermReadKey-2.38-11.el9.x86_64
perl-Error-1.0.17029-7.el9.noarch
perl-lib-0.65-481.el9.x86_64

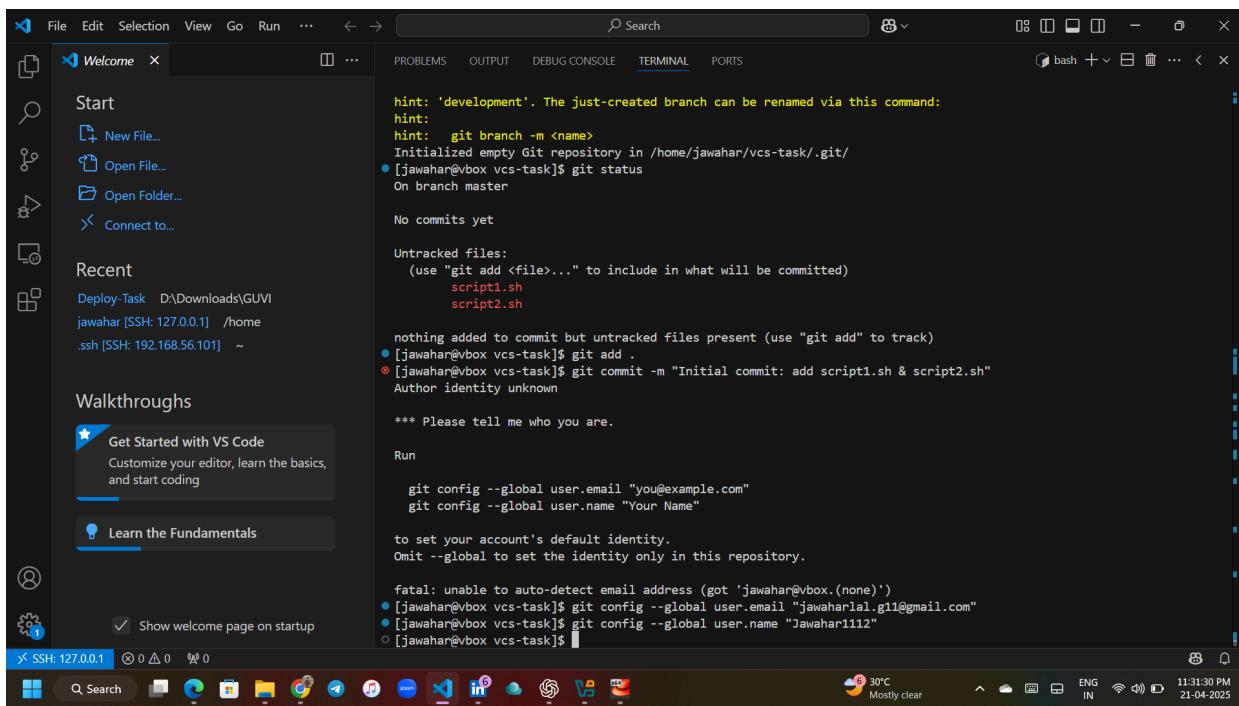
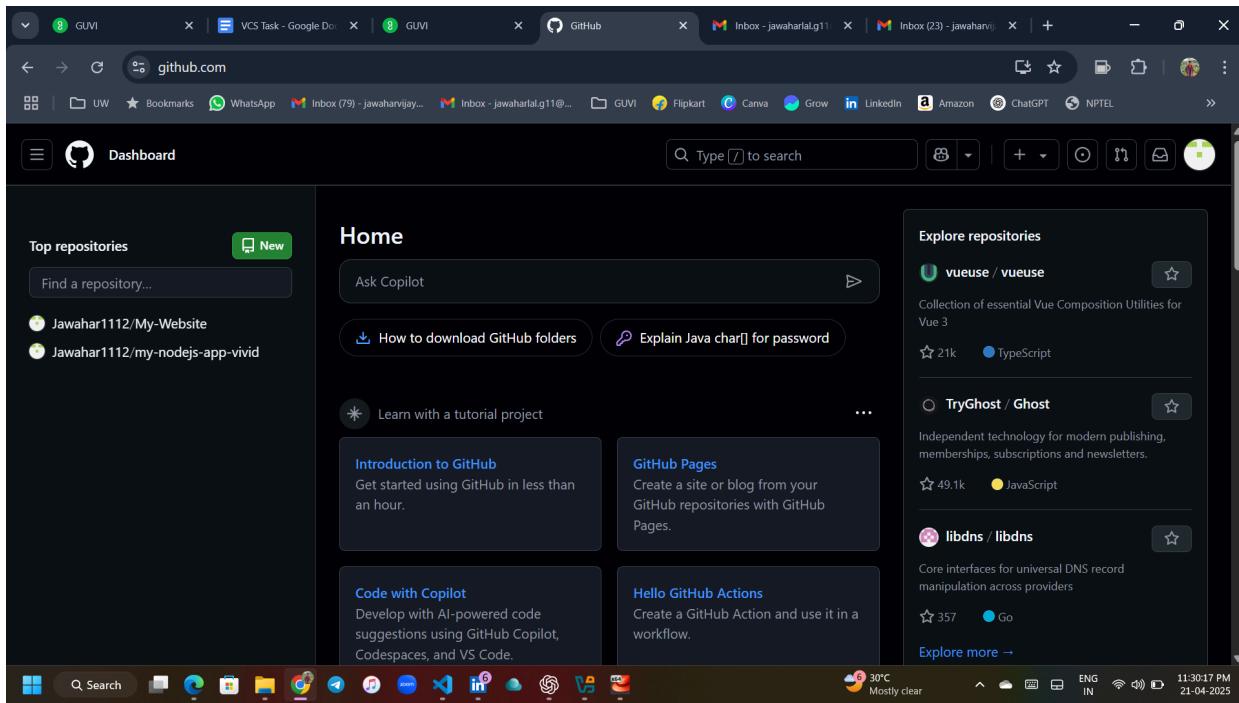
Complete!
● [jawahar@vbox ~]$ git --version
git version 2.47.1
● [jawahar@vbox ~]$ mkdir vcs-task
● [jawahar@vbox ~]$ cd vcs-task/
● [jawahar@vbox vcs-task]$ touch script1.sh script2.sh
● [jawahar@vbox vcs-task]$ ls -ltr
total 0
-rw-r--r--. 1 jawahar jawahar 0 Apr 21 23:26 script2.sh
-rw-r--r--. 1 jawahar jawahar 0 Apr 21 23:26 script1.sh
● [jawahar@vbox vcs-task]$ cat "Hello from script1" >> script1.sh
cat: 'Hello from script1': No such file or directory
● [jawahar@vbox vcs-task]$ echo "Hello from script1" >> script1.sh
● [jawahar@vbox vcs-task]$ cat script.sh
cat: script.sh: No such file or directory
● [jawahar@vbox vcs-task]$ ls -ltr
total 4
-rw-r--r--. 1 jawahar jawahar 0 Apr 21 23:26 script2.sh
-rw-r--r--. 1 jawahar jawahar 19 Apr 21 23:27 script1.sh
● [jawahar@vbox vcs-task]$ cat script1.sh
Hello from script1
● [jawahar@vbox vcs-task]$ echo "Hello from script2" >> script2.sh
● [jawahar@vbox vcs-task]$ ls -ltr
total 8
-rw-r--r--. 1 jawahar jawahar 19 Apr 21 23:27 script1.sh
-rw-r--r--. 1 jawahar jawahar 19 Apr 21 23:28 script2.sh
○ [jawahar@vbox vcs-task]$
```

```
-rw-r--r--. 1 jawahar jawahar 19 Apr 21 23:27 script1.sh
-rw-r--r--. 1 jawahar jawahar 19 Apr 21 23:28 script2.sh
● [jawahar@vbox vcs-task]$ chmod +x script1.sh script2.sh
● [jawahar@vbox vcs-task]$ ls -ltr
total 8
-rwxr-xr-x. 1 jawahar jawahar 19 Apr 21 23:27 script1.sh
-rwxr-xr-x. 1 jawahar jawahar 19 Apr 21 23:28 script2.sh
● [jawahar@vbox vcs-task]$ git status
fatal: not a git repository (or any of the parent directories): .git
● [jawahar@vbox vcs-task]$ git init
hint: Using 'master' as the name for the initial branch. This default branch name
hint: is subject to change. To configure the initial branch name to use in all
hint: of your new repositories, which will suppress this warning, call:
hint:
hint:   git config --global init.defaultBranch <name>
hint:
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and
hint: 'development'. The just-created branch can be renamed via this command:
hint:
hint:   git branch -m <name>
Initialized empty Git repository in /home/jawahar/vcs-task/.git/
● [jawahar@vbox vcs-task]$ git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    script1.sh
    script2.sh

nothing added to commit but untracked files present (use "git add" to track)
○ [jawahar@vbox vcs-task]$
```



The screenshot shows the VS Code interface with the terminal tab selected. The terminal output is as follows:

```
On branch master
No commits yet
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    script1.sh
    script2.sh

nothing added to commit but untracked files present (use "git add" to track)
● [jawahar@vbox vcs-task]$ git add .
● [jawahar@vbox vcs-task]$ git commit -m "Initial commit: add script1.sh & script2.sh"
● [jawahar@vbox vcs-task]$ Author identity unknown
*** Please tell me who you are.

Run
git config --global user.email "you@example.com"
git config --global user.name "Your Name"

to set your account's default identity.
Omit --global to set the identity only in this repository.

fatal: unable to auto-detect email address (got 'jawahar@vbox.(none)')
● [jawahar@vbox vcs-task]$ git config --global user.email "jawaharlal.g11@gmail.com"
● [jawahar@vbox vcs-task]$ git config --global user.name "Jawahar112"
● [jawahar@vbox vcs-task]$ git commit -m "Initial commit: add script1.sh & script2.sh"
[master (root-commit) 7b953ac] Initial commit: add script1.sh & script2.sh
  2 files changed, 2 insertions(+)
  create mode 100755 script1.sh
  create mode 100755 script2.sh
○ [jawahar@vbox vcs-task]$
```

This screenshot is identical to the one above, showing the same terminal session and output. It demonstrates the process of committing changes to a local Git repository and setting global configuration for the user.

The screenshot shows a web browser window with multiple tabs open. The active tab is 'github.com/Jawahar112/VCS-Task-Guvi'. The page displays a public repository named 'VCS-Task-Guvi' owned by 'Jawahar112'. The repository has 1 branch ('main') and 0 tags. It contains two files: 'script1.sh' and 'script2.sh', both added in the initial commit 10 minutes ago. A 'README' file is present but empty. The 'About' section indicates no description, website, or topics provided. The 'Releases' section shows no releases published, with a link to 'Create a new release'. The 'Packages' section is also empty. The browser's address bar shows the URL 'github.com/Jawahar112/VCS-Task-Guvi'. The taskbar at the bottom of the screen includes icons for various applications like File Explorer, Task View, and Start.

The screenshot shows the Visual Studio Code (VS Code) interface. The left sidebar features a 'Welcome' panel with sections for 'Start', 'Recent', and 'Walkthroughs'. The 'Start' section includes links to 'New File...', 'Open File...', 'Open Folder...', and 'Connect to...'. The 'Recent' section lists a 'Deploy-Task' project located at 'D:\Downloads\GUVI'. The 'Walkthroughs' section offers links to 'Get Started with VS Code' and 'Learn the Fundamentals'. The main area is a terminal window displaying a git session. The user has checked out a 'feature-branch' from 'origin/main', added a script to 'script1.sh', committed the change, and then merged it back into the 'main' branch. The terminal output is as follows:

```
To https://github.com/Jawahar112/VCS-Task-Guvi.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
● [jawahar@vbox vcs-task]$ git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
● [jawahar@vbox vcs-task]$ git checkout -b feature-branch
Switched to a new branch 'feature-branch'
● [jawahar@vbox vcs-task]$ echo "New feature in script1'" >> script1.sh
● [jawahar@vbox vcs-task]$ git add script1.sh
● [jawahar@vbox vcs-task]$ git commit -m "Added feature line in script1"
[feature-branch 2f96f17] Added feature line in script1
 1 file changed, 1 insertion(+)
● [jawahar@vbox vcs-task]$ git status
On branch feature-branch
nothing to commit, working tree clean
● [jawahar@vbox vcs-task]$ ls -files
ls: invalid option -- 'e'
Try 'ls --help' for more information.
● [jawahar@vbox vcs-task]$ git ls-files
script1.sh
script2.sh
● [jawahar@vbox vcs-task]$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
● [jawahar@vbox vcs-task]$ git merge feature-branch
Updating 7b953ac..2f96f17
Fast-forward
  script1.sh | 1 +
  1 file changed, 1 insertion(+)
● [jawahar@vbox vcs-task]$
```

The taskbar at the bottom of the screen includes icons for various applications like File Explorer, Task View, and Start.

```
[jawahar@vbox vcs-task]$ echo "echo 'New feature in script1'" >> script1.sh
[jawahar@vbox vcs-task]$ git add script1.sh
[jawahar@vbox vcs-task]$ git commit -m "Added feature line in script1"
[feature-branch 2f96f17] Added feature line in script1
 1 file changed, 1 insertion(+)
[jawahar@vbox vcs-task]$ git status
On branch feature-branch
nothing to commit, working tree clean
[jawahar@vbox vcs-task]$ ls -files
ls: invalid option -- 'e'
Try 'ls --help' for more information.
[jawahar@vbox vcs-task]$ git ls-files
script1.sh
script2.sh
[jawahar@vbox vcs-task]$ git checkout main
Switched to branch 'main'.
Your branch is up to date with 'origin/main'.
[jawahar@vbox vcs-task]$ git merge feature-branch
Updating 7b953ac..2f96f17
Fast-forward
  script1.sh | 1 +
  1 file changed, 1 insertion(+)
[jawahar@vbox vcs-task]$ ls -ltr
total 8
-rw-r--r--. 1 jawahar jawahar 19 Apr 21 23:28 script2.sh
-rw-r--r--. 1 jawahar jawahar 49 Apr 21 23:45 script1.sh
[jawahar@vbox vcs-task]$ cat script1.sh
Hello from script1
echo 'New feature in script1'
[jawahar@vbox vcs-task]$ git branch
* main
[jawahar@vbox vcs-task]$
```

```
[jawahar@vbox vcs-task]$ git ls-files
script1.sh
script2.sh
[jawahar@vbox vcs-task]$ git checkout main
Switched to branch 'main'.
Your branch is up to date with 'origin/main'.
[jawahar@vbox vcs-task]$ git merge feature-branch
Updating 7b953ac..2f96f17
Fast-forward
  script1.sh | 1 +
  1 file changed, 1 insertion(+)
[jawahar@vbox vcs-task]$ ls -ltr
total 8
-rw-r--r--. 1 jawahar jawahar 19 Apr 21 23:28 script2.sh
-rw-r--r--. 1 jawahar jawahar 49 Apr 21 23:45 script1.sh
[jawahar@vbox vcs-task]$ cat script1.sh
Hello from script1
echo 'New feature in script1'
[jawahar@vbox vcs-task]$ git branch
* main
[jawahar@vbox vcs-task]$ git checkout -b rebase-branch
Switched to a new branch 'rebase-branch'
[jawahar@vbox vcs-task]$ git branch
  feature-branch
    main
* rebase-branch
[jawahar@vbox vcs-task]$ echo "echo 'Rebase test line'" >> script2.sh
[jawahar@vbox vcs-task]$ git add script2.sh
[jawahar@vbox vcs-task]$ git commit -m "Added rebase test line in script2"
[rebase-branch 390c6d0] Added rebase test line in script2
 1 file changed, 1 insertion(+)
[jawahar@vbox vcs-task]$
```

The screenshot shows the VS Code interface with the terminal tab active. The terminal output shows a sequence of git commands related to stash:

```
echo 'Rebase test line'
[jawahar@vbox vcs-task]$ echo "echo 'Temporary change for stash'" >> script1.sh
[jawahar@vbox vcs-task]$ git stash
Saved working directory and index state WIP on main: 390c6d0 Added rebase test line in script2
[jawahar@vbox vcs-task]$ git stash list
stash@{0}: WIP on main: 390c6d0 Added rebase test line in script2
[jawahar@vbox vcs-task]$ git stash pop
On branch main
Your branch is ahead of 'origin/main' by 2 commits.
  (use "git push" to publish your local commits)

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
    (use "git restore <file>..." to discard changes in working directory)
           modified:  script1.sh

no changes added to commit (use "git add" and/or "git commit -a")
Dropped refs/stash@{0} (5994963263349a2d1882d584e609bdcb6082aed1)
[jawahar@vbox vcs-task]$ git add script1.sh
[jawahar@vbox vcs-task]$ git commit -m "Restored stash changes to script1.sh"
[main 27858b9] Restored stash changes to script1.sh
  1 file changed, 1 insertion(+)
[jawahar@vbox vcs-task]$ git push
Username for 'https://github.com': Jawahar1112
Password for 'https://Jawahar1112@github.com':
Enumerating objects: 12, done.
Counting objects: 100% (12/12), done.
Compressing objects: 100% (7/7), done.
Writing objects: 100% (9/9), 968 bytes | 96.00 KiB/s, done.
Total 9 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/Jawahar1112/VCS-Task-Guvi.git
  7b953ac..27858b9 main -> main
[jawahar@vbox vcs-task]$
```

The screenshot shows the VS Code interface with the terminal tab active. The terminal output shows a sequence of git commands including pushing changes and creating a new branch:

```
no changes added to commit (use "git add" and/or "git commit -a")
Dropped refs/stash@{0} (5994963263349a2d1882d584e609bdcb6082aed1)
[jawahar@vbox vcs-task]$ git add script1.sh
[jawahar@vbox vcs-task]$ git commit -m "Restored stash changes to script1.sh"
[main 27858b9] Restored stash changes to script1.sh
  1 file changed, 1 insertion(+)
[jawahar@vbox vcs-task]$ git push
Username for 'https://github.com': Jawahar1112
Password for 'https://Jawahar1112@github.com':
Enumerating objects: 12, done.
Counting objects: 100% (12/12), done.
Compressing objects: 100% (7/7), done.
Writing objects: 100% (9/9), 968 bytes | 96.00 KiB/s, done.
Total 9 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/Jawahar1112/VCS-Task-Guvi.git
  7b953ac..27858b9 main -> main
[jawahar@vbox vcs-task]$ git branch
* main
  rebase-branch
[jawahar@vbox vcs-task]$ git ls-files
script1.sh
script2.sh
[jawahar@vbox vcs-task]$ ls -ltr
total 8
-rwxr-xr-x. 1 jawahar jawahar 43 Apr 21 23:50 script2.sh
-rwxr-xr-x. 1 jawahar jawahar 83 Apr 21 23:51 script1.sh
[jawahar@vbox vcs-task]$ cat script1.sh
Hello from script1
echo 'New feature in script1'
echo 'Temporary change for stash'
[jawahar@vbox vcs-task]$
```