DEVOPS FIRST TASK

1. git stash

   This command is used to store or remove the temporary changes which are recently made.

```
C:\Users\Manikanta\OneDrive\Desktop\learningGit>git status
On branch develop
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:   test.txt

no changes added to commit (use "git add" and/or "git commit -a")

C:\Users\Manikanta\OneDrive\Desktop\learningGit>git stash
Saved working directory and index state WIP on develop: 5a68db2 add

C:\Users\Manikanta\OneDrive\Desktop\learningGit>git stash list
stash@{0}: WIP on develop: 5a68db2 add

C:\Users\Manikanta\OneDrive\Desktop\learningGit>
```

2.git merge

This command is used to merge different branches into a single branch.

```
C:\Users\Manikanta\OneDrive\Desktop\learningGit>git branch
  checkout
* develop
  master

C:\Users\Manikanta\OneDrive\Desktop\learningGit>git checkout master
warning: unable to rmdir 'LearningGIt': Directory not empty
Switched to branch 'master'

C:\Users\Manikanta\OneDrive\Desktop\learningGit>git branch
  checkout
  develop
* master

C:\Users\Manikanta\OneDrive\Desktop\learningGit>git merge develop
Merge made by the 'ort' strategy.
 LearningGIt | 1 +
 1 file changed, 1 insertion(+)
 create mode 160000 LearningGIt

C:\Users\Manikanta\OneDrive\Desktop\learningGit>git branch
  checkout
  develop
* master

C:\Users\Manikanta\OneDrive\Desktop\learningGit>git merge develop
Already up to date.

C:\Users\Manikanta\OneDrive\Desktop\learningGit>
```

3.git fetch

This command is used for downloading the contents/branches/commits/repositories etc... from a remote

```
C:\Users\Manikanta\OneDrive\Desktop\clone 2\LearningGIt>git fetch
remote: Enumerating objects: 54, done.
remote: Counting objects: 100% (50/50), done.
remote: Compressing objects: 100% (37/37), done.
remote: Total 54 (delta 13), reused 37 (delta 11), pack-reused 4
Unpacking objects: 100% (54/54), 1.85 MiB | 107.00 KiB/s, done.
From https://github.com/snehal-herovired/LearningGIt
 * [new branch]      20A91A0496          -> origin/20A91A0496
 * [new branch]      21MH5A0351          -> origin/21MH5A0351
 * [new branch]      21a95a0411          -> origin/21a95a0411
error: cannot lock ref 'refs/remotes/origin/21mh5a0351': is at 26621e6fe9cc4d31a3ea74f3
 ! b16322d..6a26752  21mh5a0351          -> origin/21mh5a0351  (unable to update local
   9e159c0..b29ac0e  bhavana(20A91A04E1) -> origin/bhavana(20A91A04E1)
 * [new branch]      sandeepj            -> origin/sandeepj
   568a190..30e84df  vijaya              -> origin/vijaya

C:\Users\Manikanta\OneDrive\Desktop\clone 2\LearningGIt>
```

4.difference between fetch and pull

"Git pull" copy the contents directly into the local repository from remote repository, whereas "git fetch" shows the

new change without merging them directly.

```
C:\Users\Manikanta\OneDrive\Desktop\clone 2\LearningGIt>git pull
remote: Enumerating objects: 1049, done.
remote: Counting objects: 100% (609/609), done.
remote: Compressing objects: 100% (449/449), done.
remote: Total 1049 (delta 160), reused 554 (delta 133), pack-reused 440
Receiving objects: 100% (1049/1049), 70.68 MiB | 2.35 MiB/s
Receiving objects: 100% (1049/1049), 71.19 MiB | 2.31 MiB/s, done.
Resolving deltas: 100% (223/223), completed with 6 local objects.
From https://github.com/snehal-herovired/LearningGIt
   6ecb479..be522da  master                     -> origin/master
 * [new branch]      20A91A0402                 -> origin/20A91A0402
   962094f..f16d262  20A91A0440                 -> origin/20A91A0440
 * [new branch]      20A91A0496                 -> origin/20A91A0496
 * [new branch]      20A91A04A1                 -> origin/20A91A04A1
 + 12e78e9...cda73b0 20A91A04D9                 -> origin/20A91A04D9  (forced update)
 * [new branch]      20A91A04J2                 -> origin/20A91A04J2
 * [new branch]      20A91A04J2(aditya)         -> origin/20A91A04J2(aditya)
   f9fc2a4..7f6bbc5  20A91A04J4                 -> origin/20A91A04J4
 + 850f8fc...351719c 20A91A04K0                 -> origin/20A91A04K0  (forced update)
   5abf760..805247c  20A91A04K3                 -> origin/20A91A04K3
   00aa464..cb9c5c9  20A91A04K9                 -> origin/20A91A04K9
   dbbe987..1390a13  20A91A04L4                 -> origin/20A91A04L4
   c20ce31..e8f03ad  20A91A04L7                 -> origin/20A91A04L7
   ba81278..ffee8dd  20A91A04L8                 -> origin/20A91A04L8
   e6c2db7..3e59e12  20A91A04P0                 -> origin/20A91A04P0
 + 850f8fc...4c5292e 20A91A2715                 -> origin/20A91A2715  (forced update)
 + b1fd5e1...294c2b8 20MH1A04B5                 -> origin/20MH1A04B5  (forced update)
 * [new branch]      20P31A04J1                 -> origin/20P31A04J1
 * [new branch]      20P31A04J4                 -> origin/20P31A04J4
 + 36ed8ad...4b5f24b 20P31A04M4                 -> origin/20P31A04M4  (forced update)
 + f296101...e3c1015 20a91a0429                 -> origin/20a91a0429  (forced update)
 * [new branch]      20a91a0442                 -> origin/20a91a0442
 * [new branch]      20a91a0449                 -> origin/20a91a0449
   850f8fc..7e4aaa9  20a91a0466                 -> origin/20a91a0466
 * [new branch]      20a91a0472                 -> origin/20a91a0472
   850f8fc..0e1c47e  20a91a0491                 -> origin/20a91a0491
 * [new branch]      20a91a0496                 -> origin/20a91a0496
 * [new branch]      20a91a04I1                 -> origin/20a91a04I1
   850f8fc..27f7c63  20a91a04k8                 -> origin/20a91a04k8
   8de1e7d..1bdc4d5  21A95A0358                 -> origin/21A95A0358
   fd78a72..8ef07b7  21A95A0408NITYA-ANGADA -> origin/21A95A0408NITYA-ANGADA
   60f6313..5049df9  21A95A0410                 -> origin/21A95A0410
 * [new branch]      21A95A0411                 -> origin/21A95A0411
   12e78e9..3c76641  21A95A0419                 -> origin/21A95A0419
 * [new branch]      21A95A0427(Teja)           -> origin/21A95A0427(Teja)
 * [new branch]      21MH5A0351                 -> origin/21MH5A0351
 * [new branch]      21MH5A0416                 -> origin/21MH5A0416
 * [new branch]      21P35A0339                 -> origin/21P35A0339
   8aaad2b..2b9f761  21a95a0359                 -> origin/21a95a0359
```

In "git fetch" the repository data is updated in .git and for "git pull" local repository is updated directly since entire contents are copied/pulled.

```
C:\Users\Manikanta\OneDrive\Desktop\clone 2\LearningGIt>git fetch
remote: Enumerating objects: 54, done.
remote: Counting objects: 100% (50/50), done.
remote: Compressing objects: 100% (37/37), done.
remote: Total 54 (delta 13), reused 37 (delta 11), pack-reused 4
Unpacking objects: 100% (54/54), 1.85 MiB | 107.00 KiB/s, done.
From https://github.com/snehal-herovired/LearningGIt
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 * [new branch]      21MH5A0351          -> origin/21MH5A0351
 * [new branch]      21a95a0411          -> origin/21a95a0411
error: cannot lock ref 'refs/remotes/origin/21mh5a0351': is at 26621e6fe9cc4d31a3ea74f3
 ! b16322d..6a26752  21mh5a0351          -> origin/21mh5a0351  (unable to update local
   9e159c0..b29ac0e  bhavana(20A91A04E1) -> origin/bhavana(20A91A04E1)
 * [new branch]      sandeepj            -> origin/sandeepj
   568a190..30e84df  vijaya              -> origin/vijaya

C:\Users\Manikanta\OneDrive\Desktop\clone 2\LearningGIt>
```
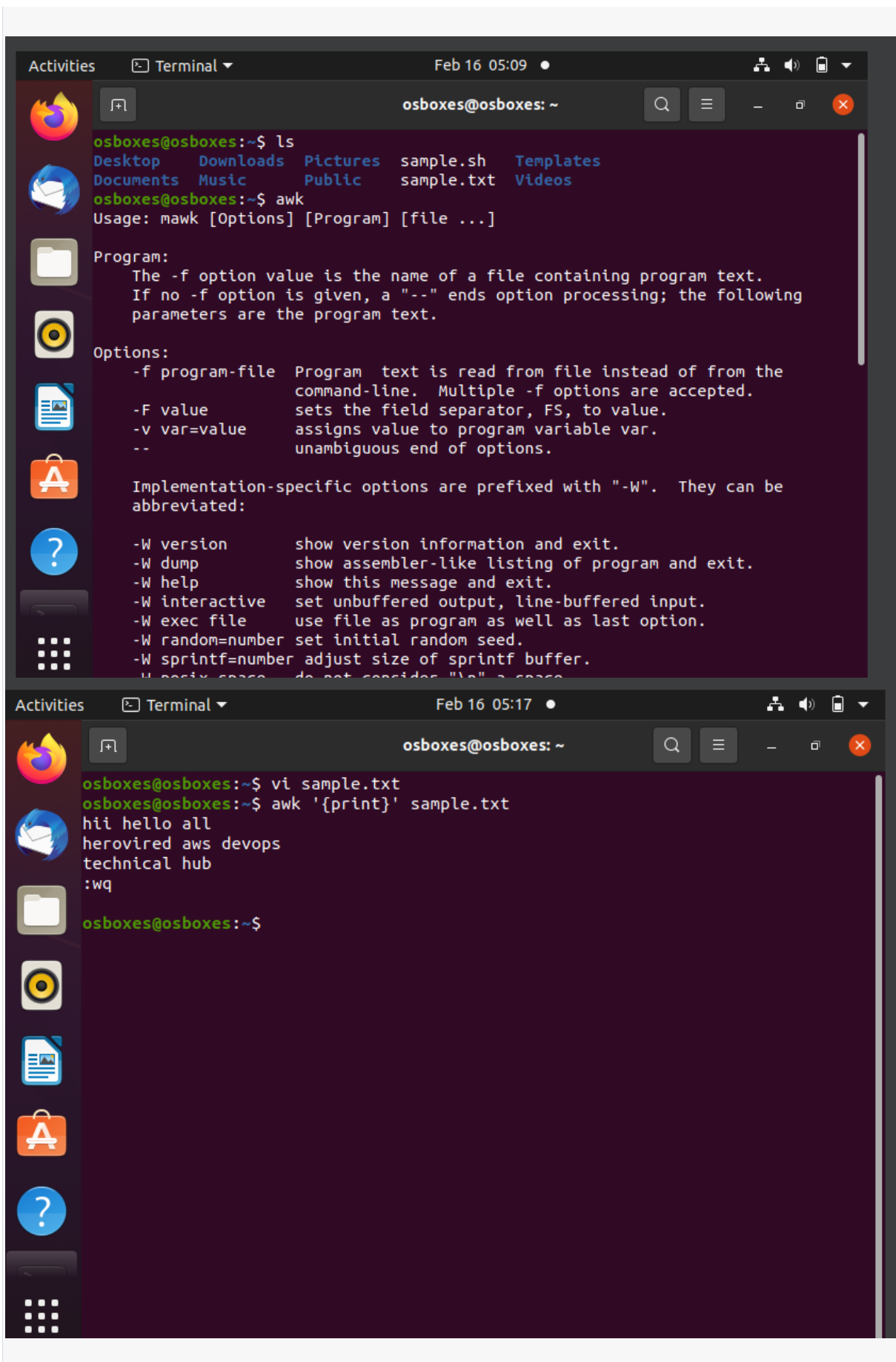
5. linux awk command:

The linux awk command scans the file line by line and performs action on matched lines.

This command prints every line from the mentioned file and also prints line when a specific word is mentioned.
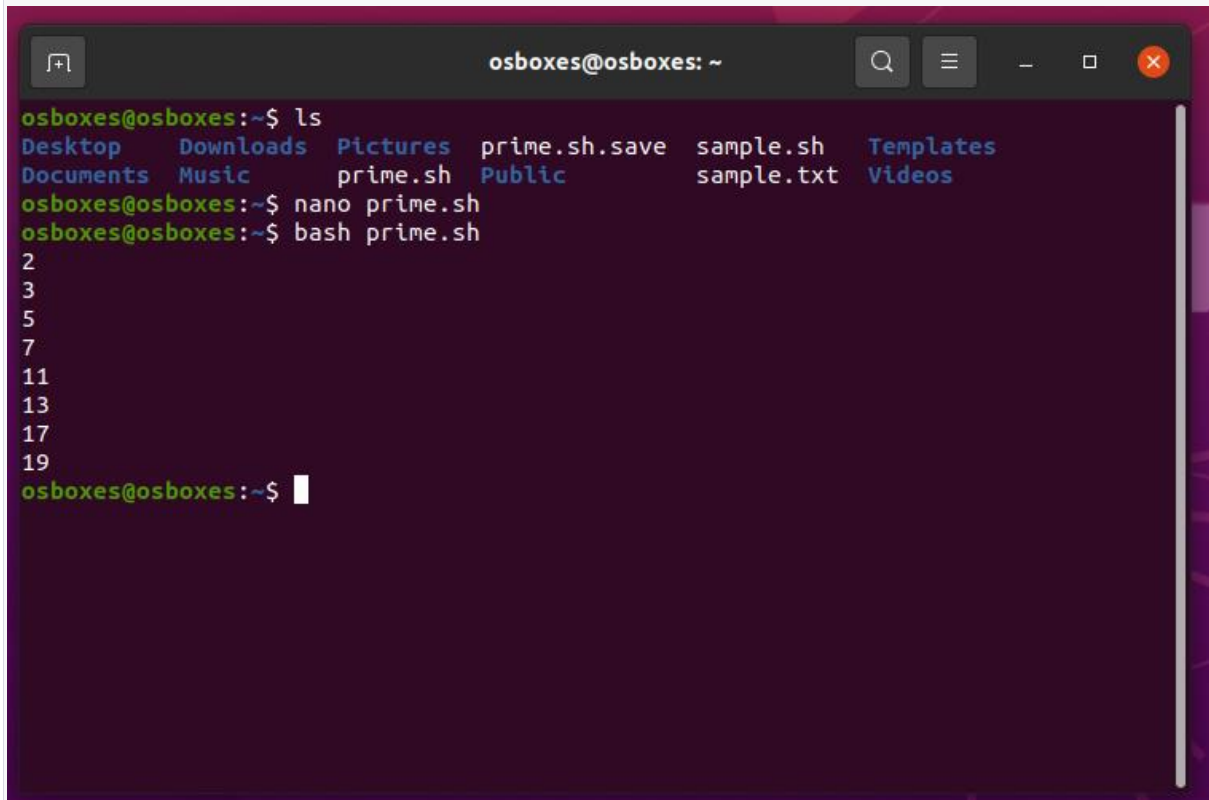
AWK can perform a wide range of text processing tasks, including:

1. Searching and replacing text
2. Extracting specific columns from a file
3. Formatting text and output
4. Calculating and summarizing data
5. Filtering data based on conditions

AWK can also use regular expressions and pattern matching to perform complex text processing tasks. It is a powerful tool that is widely used for data analysis, system administration, and other text processing tasks in Linux and other Unix-like operating systems.

osboxes@osboxes: ~

```
osboxes@osboxes:~$ ls
Desktop      Downloads    Pictures    sample.sh      Templates
Documents   Music        Public      sample.txt    Videos
osboxes@osboxes:~$ awk
Usage: mawk [Options] [Program] [file ...]

Program:
     The -f option value is the name of a file containing program text.
     If no -f option is given, a "--" ends option processing; the following
     parameters are the program text.

Options:
     -f program-file   Program  text is read from file instead of from the
                       command-line.  Multiple -f options are accepted.
     -F value          sets the field separator, FS, to value.
     -v var=value      assigns value to program variable var.
     --                unambiguous end of options.

     Implementation-specific options are prefixed with "-W".  They can be
     abbreviated:

     -W version        show version information and exit.
     -W dump           show assembler-like listing of program and exit.
     -W help           show this message and exit.
     -W interactive    set unbuffered output, line-buffered input.
     -W exec file      use file as program as well as last option.
     -W random=number  set initial random seed.
     -W sprintf=number adjust size of sprintf buffer.
```

osboxes@osboxes: ~

```
osboxes@osboxes:~$ vi sample.txt
osboxes@osboxes:~$ awk '{print}' sample.txt
hii hello all
herovired aws devops
technical hub
:wq

osboxes@osboxes:~$
```

6.Bash script for prime from 1-20

7.running ubuntu in interactive mode

```
Manikanta@LAPTOP-DGVLP1CM MINGW64 ~/OneDrive/Desktop/clone 2/LearningGIt (master
)
$ docker login
Error: Cannot perform an interactive login from a non TTY device

Manikanta@LAPTOP-DGVLP1CM MINGW64 ~/OneDrive/Desktop/clone 2/LearningGIt (master)
$ docker login
Authenticating with existing credentials...
Login Succeeded

Logging in with your password grants your terminal complete access to your account.
For better security, log in with a limited-privilege personal access token. Learn more at https://docs.do

Manikanta@LAPTOP-DGVLP1CM MINGW64 ~/OneDrive/Desktop/clone 2/LearningGIt (master)
$ docker images
REPOSITORY               TAG        IMAGE ID       CREATED        SIZE
kumar1611/pythonflask    latest     c03d98cf6d50   3 days ago     156MB
pythonflask              latest     c03d98cf6d50   3 days ago     156MB
mani                     latest     e773b9fa4669   3 days ago     919MB
kumar1611/kumar          latest     d3cf78e39118   3 days ago     919MB
kumar1199                latest     d3cf78e39118   3 days ago     919MB
kumar                    latest     d3cf78e39118   3 days ago     919MB
python                   latest     f92346e0c39e   5 days ago     925MB
ubuntu                   latest     58db3edaf2be   3 weeks ago    77.8MB

Manikanta@LAPTOP-DGVLP1CM MINGW64 ~/OneDrive/Desktop/clone 2/LearningGIt (master)
$ docker run -it ubuntu
the input device is not a TTY.  If you are using mintty, try prefixing the command with 'winpty'

Manikanta@LAPTOP-DGVLP1CM MINGW64 ~/OneDrive/Desktop/clone 2/LearningGIt (master)
$ winpty docker run -it ubuntu
root@5ecaa05434ac:/# |
```

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