

Day-7

Date: 14-08-2024

Source Code Management with Git

Difference between GitLab and GitHub:

GitLab

GitLab is a repository hosting manager tool developed by GitLab Inc and used for the software development process.

GitHub

GitHub is a repository hosting service tool that features collaboration and access control. It is a platform for programmers to fix bugs together and host open-source projects.

Assignment-1:

Initialize a new git repository in a directory of your choice. And a simple text file to the repository and make the first commit.

```
rps@rps-virtual-machine:~$ cd pavan1
rps@rps-virtual-machine:~/pavan1$ ls
rps@rps-virtual-machine:~/pavan1$ ls -l
total 0
rps@rps-virtual-machine:~/pavan1$ cd .git
rps@rps-virtual-machine:~/pavan1/.git$ ls
branches  config  description  HEAD  hooks  info  objects  refs
rps@rps-virtual-machine:~/pavan1/.git$ cd .
rps@rps-virtual-machine:~/pavan1/.git$ cd ..
rps@rps-virtual-machine:~/pavan1$ ls
rps@rps-virtual-machine:~/pavan1$ git log
fatal: your current branch 'master' does not have any commits yet
rps@rps-virtual-machine:~/pavan1$ git status
On branch master

No commits yet

nothing to commit (create/copy files and use "git add" to track)
rps@rps-virtual-machine:~/pavan1$ cd ..
rps@rps-virtual-machine:~$ mkdir pavanik
mkdir: cannot create directory 'pavanik': File exists
rps@rps-virtual-machine:~$ cd pavanik
rps@rps-virtual-machine:~/pavanik$ git init
Reinitialized existing Git repository in /home/rps/pavanik/.git/
rps@rps-virtual-machine:~/pavanik$ vi samplefile.txt
rps@rps-virtual-machine:~/pavanik$ vi samplefile.txt
rps@rps-virtual-machine:~/pavanik$ git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
```

```

On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        samplefile.txt

nothing added to commit but untracked files present (use "git add" to track)
rps@rps-virtual-machine:~/pavanik$ git add samplefile.txt
rps@rps-virtual-machine:~/pavanik$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   samplefile.txt

rps@rps-virtual-machine:~/pavanik$ git commit -m "first commit"
[master 8677e3f] first commit
 1 file changed, 424 insertions(+)
 create mode 100644 samplefile.txt
rps@rps-virtual-machine:~/pavanik$ git log
commit 8677e3f798d48c9483808a0fb316bbf195c69ffe (HEAD -> master)
Author: github_pavanikonduru <kondurupavani2421@gmail.com>
Date:   Wed Aug 14 14:27:52 2024 +0530

    first commit

commit 494d40eccfc3eb6825fd2db6ab74a4f290efc20b
Author: github_pavanikonduru <kondurupavani2421@gmail.com>
Date:   Wed Aug 14 14:12:54 2024 +0530

    simple text file a.txt
rps@rps-virtual-machine:~/pavanik$

```

Assignment-2:

Branch creation and switching create a new branch named 'c_feature' and switch to it . Make changes in the 'c_feature' branch and commit them.

Creating a Branch:

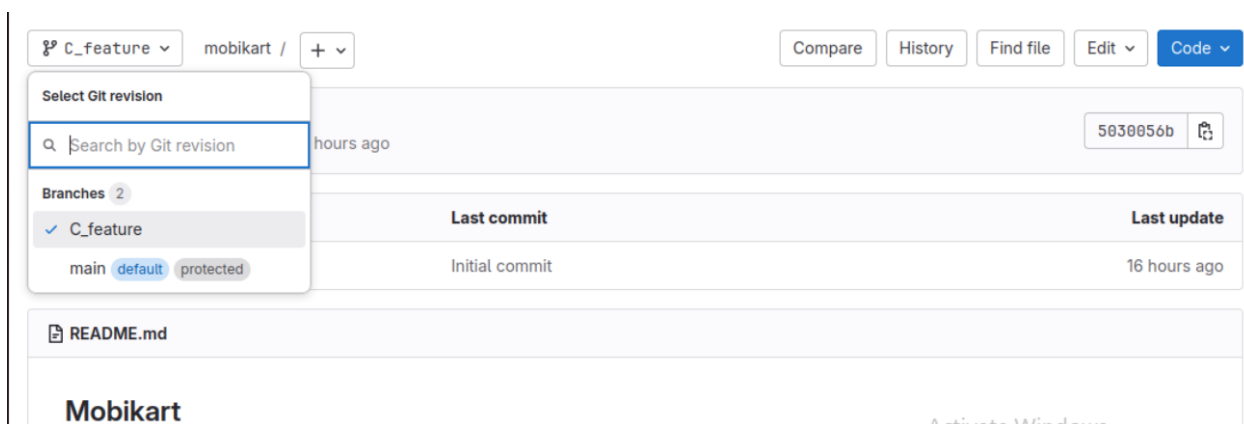


Fig-1: Creating a Branch in GitLab

```
Activities Terminal Aug 14 09:47 rps@rps-virtual-machine: ~/mobikart_13_8/mobikart

rps@rps-virtual-machine:~$ git branch
fatal: not a git repository (or any of the parent directories): .git
rps@rps-virtual-machine:~$ cd ..
rps@rps-virtual-machine:/home$ git branch
fatal: not a git repository (or any of the parent directories): .git
rps@rps-virtual-machine:/home$ cd
rps@rps-virtual-machine:~$ cd mobikart
rps@rps-virtual-machine:~/mobikart$ cd mobikart_13_8
bash: cd: mobikart_13_8: No such file or directory
rps@rps-virtual-machine:~/mobikart$ cd..
cd..: command not found
rps@rps-virtual-machine:~/mobikart$ cd ..
rps@rps-virtual-machine:~$ cd mobikart_13_8
rps@rps-virtual-machine:~/mobikart_13_8$ cd .
rps@rps-virtual-machine:~/mobikart_13_8$ cd mobikart
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ git branch
* main
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ git branch c_feature
c_feature
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ git branch
* main
  c_feature
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ git switch c_feature
A
  payment_module.sh
Switched to branch 'c_feature'
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ git branch
* c_feature
  main
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ nano i
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ nani imp.c
Command 'nani' not found, did you mean:
```

Activate Windows
Go to Settings to activate Windows.

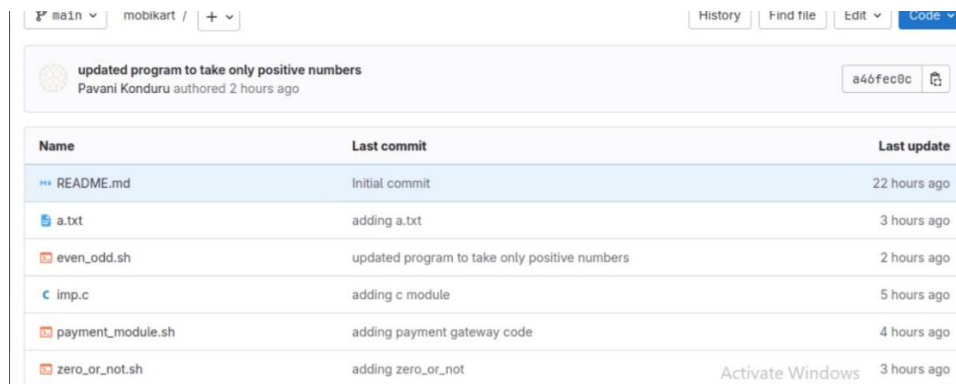
```
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ git commit -m "adding c module"
[c_feature 0298b5d] adding c module
2 files changed, 9 insertions(+)
create mode 100644 imp.c
create mode 100644 payment_module.sh
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ git log --oneline
0298b5d (HEAD -> c_feature) adding c module
5030056 (origin/main, origin/HEAD, main) Initial commit
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ git switch main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ git log --oneline
5030056 (HEAD -> main, origin/main, origin/HEAD) Initial commit
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ git merge c_feature
Updating 5030056..0298b5d
Fast-forward
 imp.c          | 4 ++++
 payment_module.sh | 5 +++++
 2 files changed, 9 insertions(+)
 create mode 100644 imp.c
 create mode 100644 payment_module.sh
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ git log --oneline
0298b5d (HEAD -> main, c_feature) adding c module
5030056 (origin/main, origin/HEAD) Initial commit
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$
```

Activate Windows
Go to Settings to activate Windows.

Fig-2: Creating, switch and merge a Branch

Assignment-3:


Create a branch dev and push the file into dev branch and merge the file from 'dev' branch into main branch ensuring that the issue is resolved.




Name	Last commit	Last update
README.md	Initial commit	22 hours ago
a.txt	adding a.txt	3 hours ago
even_odd.sh	updated program to take only positive numbers	2 hours ago
imp.c	adding c module	5 hours ago
payment_module.sh	adding payment gateway code	4 hours ago
zero_or_not.sh	adding zero_or_not	3 hours ago

Fig-1: Before Merge in Main Branch

```
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ git branch
* main
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ git switch main
Already on 'main'
Your branch is up to date with 'origin/main'.
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ git branch dev
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ git switch dev
Switched to branch 'dev'
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ touch merge.sh
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ git add merge.sh
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ git commit -m "adding code for merge"
[dev 2154cba] adding code for merge
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 merge.sh
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ git push origin dev
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 2 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 280 bytes | 140.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote:
remote: To create a merge request for dev, visit:
remote:   https://gitlab.com/test7115433/mobikart/-/merge_requests/new?merge_request%5Bsource_branch%5D=dev
remote:
To gitlab.com:test7115433/mobikart.git
a46fec0..2154cba dev -> dev
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$
```



Mobikart

main
mobikart /
+
History
Find file
Edit
Code


Merge branch 'dev' into 'main'
0875e89d

Pavani Konduru authored just now

Name	Last commit	Last update
README.md	Initial commit	22 hours ago
a.txt	adding a.txt	3 hours ago
even_odd.sh	updated program to take only ...	2 hours ago
imp.c	adding c module	5 hours ago
merge.sh	adding code for merge	6 minutes ago

Fig-2: After Merge a file Merge.sh from dev to main branch

Assignment-4:

Write a script that reads numbers from the user to check whether the number is zero or not and also print whether the number is even or odd.

```
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ nano even_odd.sh
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ chmod +x even_odd.sh
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ git branch
  c_feature
* main
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ ls
even_odd.sh  imp.c  payment_module.sh  README.md
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ ls -l
total 20
-rwxrwxr-x 1 rps rps  60 Aug 14 10:48 even_odd.sh
-rw-rw-r-- 1 rps rps  29 Aug 14 09:45 imp.c
-rw-rw-r-- 1 rps rps  76 Aug 14 10:21 payment_module.sh
-rw-rw-r-- 1 rps rps 6172 Aug 13 21:39 README.md
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ ./even_odd.sh
-----Even or Odd number check program-----
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ nano even_odd.sh
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ ./even_odd.sh
-----Even or Odd number check program-----
Enter a number
7
-----Here is the Result-----
Number is Odd
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ git add even_odd.sh
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   even_odd.sh
```

```
rps@rps-virtual-machine: ~/mobikart_13_8/mobikart

(use "git restore --staged <file>..." to unstage)
new file:   even_odd.sh

rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ git commit -m "adding even_odd"
[main c2577c4] adding even_odd
1 file changed, 14 insertions(+)
create mode 100755 even_odd.sh
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
(use "git push" to publish your local commits)

nothing to commit, working tree clean
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ git push origin main
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 2 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 500 bytes | 250.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To gitlab.com:test7115433/mobikart.git
8d20100..c2577c4  main -> main
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ nano even_odd.sh
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ ./even_odd.sh
-----Even or Odd number check program-----
Enter a number
8
-----Here is the Result-----
Number is Even
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$
```

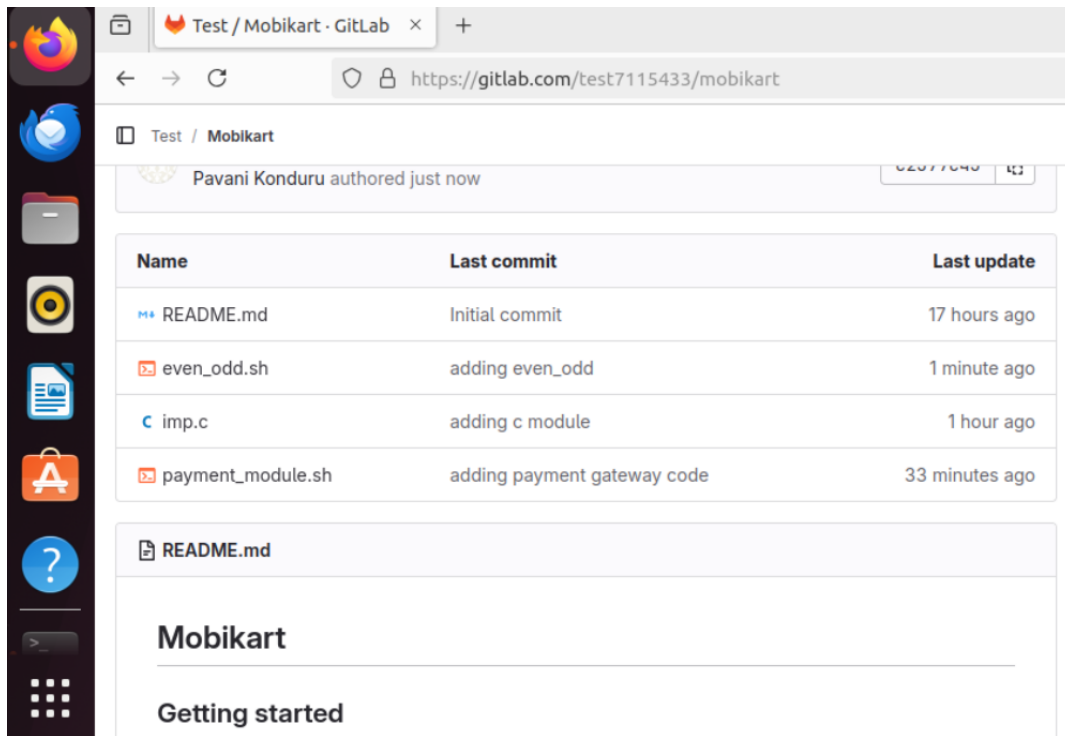
```
GNU nano 6.2                               even_odd.sh
echo '-----Even or Odd number check program-----'

echo 'Enter a number'

read n

echo '-----Here is the Result-----'

if [ `expr $n % 2` == 0 ]
then
    echo 'Number is Even'
else
    echo 'Number is Odd'
fi
```



Assignment-5:

Write a script that reads numbers from the user to check whether the number is zero or not.

```
GNU nano 6.2                                zero_or_not.sh
echo '-----Zero or not check Program-----'
echo 'Enter a Number'
read n
echo '---Here is the Result---'
if [ `expr $n ` -eq 0 ]
then
    echo 'Number is Zero'
else
    echo 'Number is not a zero'
fi
```

```

rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ nano zero_or_not.sh
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ chmod +x zero_or_not.sh
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ git branch
  c_feature
* main
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ ls
even_odd.sh  imp.c  payment_module.sh  README.md  zero_or_not.sh
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ ls -l
total 24
-rwxrwxr-x 1 rps rps 217 Aug 14 10:59 even_odd.sh
-rw-rw-r-- 1 rps rps 29 Aug 14 09:45 imp.c
-rw-rw-r-- 1 rps rps 76 Aug 14 10:21 payment_module.sh
-rw-rw-r-- 1 rps rps 6172 Aug 13 21:39 README.md
-rwxrwxr-x 1 rps rps 46 Aug 14 11:10 zero_or_not.sh
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ ./zero_or_not.sh
-----Zero or not check Program-----
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ nano zero_or_not.sh
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ ./zero_or_not.sh
-----Zero or not check Program-----
Enter a Number
0
Number is Zero

```

```

rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ nano zero_or_not.sh
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ ./zero_or_not.sh
-----Zero or not check Program-----
Enter a Number
0
---Here is the Result---
Number is Zero
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ ./zero_or_not.sh
-----Zero or not check Program-----
Enter a Number
9
---Here is the Result---
Number is not a zero
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ ./zero_or_not.sh
-----Zero or not check Program-----
Enter a Number
899
---Here is the Result---
Number is not a zero
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ ./zero_or_not.sh
-----Zero or not check Program-----
Enter a Number
000
---Here is the Result---
Number is Zero

```




```






rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ git add zero_or_not.sh
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ git status
On branch main
Your branch is up to date with 'origin/main'.


Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   zero_or_not.sh

rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ git commit -m "adding zero_or_not"
[main 7da72af] adding zero_or_not
1 file changed, 13 insertions(+)
create mode 100755 zero_or_not.sh
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ git push origin main
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 2 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 421 bytes | 210.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
To gitlab.com:test7115433/mobikart.git
 c2577c4..7da72af  main -> main
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$

```

 Pavani Konduru authored 5 minutes ago

Name	Last commit	Last update
 README.md	Initial commit	18 hours ago
 even_odd.sh	adding even_odd	34 minutes ago
 imp.c	adding c module	1 hour ago
 payment_module.sh	adding payment gateway code	1 hour ago
 zero_or_not.sh	adding zero_or_not	5 minutes ago

 README.md

Resolving complex Merge conflicts:

Assignment-6:

```

rps@rps-virtual-machine:~$ cd
rps@rps-virtual-machine:~$ cd mobikart_13_8
rps@rps-virtual-machine:~/mobikart_13_8$ mobikart
mobikart: command not found
rps@rps-virtual-machine:~/mobikart_13_8$ cd mobikart
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ cat even_odd.sh
echo '-----Even or Odd number check program-----'

echo 'Enter a number'

read n

echo '-----Here is the Result-----'

if [ `expr $n % 2` == 0 ]
then
    echo 'Number is Even'
else
    echo 'Number is Odd'
fi
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ nano even_odd.sh
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ git pull
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 3 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (3/3), 287 bytes | 143.00 KiB/s, done.
From gitlab.com:test7115433/mobikart
   d0d879a..edf48f1  main       -> origin/main

```

```

rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ git pull
hint: You have divergent branches and need to specify how to reconcile them.
hint: You can do so by running one of the following commands sometime before
hint: your next pull:
hint:
hint:   git config pull.rebase false  # merge (the default strategy)
hint:   git config pull.rebase true   # rebase
hint:   git config pull.ff only        # fast-forward only
hint:
hint: You can replace "git config" with "git config --global" to set a default
hint: preference for all repositories. You can also pass --rebase, --no-rebase,
hint: or --ff-only on the command line to override the configured default per
hint: invocation.
fatal: Need to specify how to reconcile divergent branches.
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ git config pull.rebase false
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ git pull
error: Your local changes to the following files would be overwritten by merge:
    even_odd.sh
Please commit your changes or stash them before you merge.
Aborting
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ git stash
Saved working directory and index state WIP on main: 2ca8409 adding a.txt
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ cat even_odd.sh
echo '-----Even or Odd number check program-----'

echo 'Enter a number'

read n

```

```

rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ git stash apply
On branch main
Your branch and 'origin/main' have diverged,
and have 1 and 2 different commits each, respectively.
(use "git pull" to merge the remote branch into yours)

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:   even_odd.sh

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        .a.tx.swp

no changes added to commit (use "git add" and/or "git commit -a")
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ cat even_odd.sh
echo '-----Even or Odd number check program-1-----'

echo 'Enter a positive number'

read n

echo '-----Here is the Result-----'

if [ `expr $n % 2` == 0 ]
then
    echo 'Number is Even'

```

```

rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ git stash
Saved working directory and index state WIP on main: 2ca8409 adding a.txt
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ cat even_odd.sh
echo '-----Even or Odd number check program-----'

echo 'Enter a number'

read n

echo '-----Here is the Result-----'

if [ `expr $n % 2` == 0 ]
then
    echo 'Number is Even'
else
    echo 'Number is Odd'
fi
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ git pul
git: 'pul' is not a git command. See 'git --help'.

The most similar commands are
    pull
    push
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ git pull
Merge made by the 'ort' strategy.
  even_odd.sh | 4 ++--
  1 file changed, 2 insertions(+), 2 deletions(-)
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ cat even_odd.sh
echo '-----Even or Odd number check program-----'

```



```

rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ git stash apply
Auto-merging even_odd.sh
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:   even_odd.sh

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        .a.tx.swp

no changes added to commit (use "git add" and/or "git commit -a")
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ cat even_odd.sh
echo '-----Even or Odd number check program-1-----'

echo 'Enter a positive number'

```

```

rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ cat even_odd.sh
echo '-----Even or Odd number check program-1-----'

echo 'Enter a positive number'

read n

echo '-----Here is the Result-----'

if [ `expr $n % 2` == 0 ]
then
    echo 'Number iss Even'
else
    echo 'Number iss Odd'
fi

rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ git add even_odd.sh
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ git commit -m " updated program to take only positive numbers"
[main a46fec0] updated program to take only positive numbers
 1 file changed, 2 insertions(+), 2 deletions(-)
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ git push
Enumerating objects: 12, done.
Counting objects: 100% (12/12), done.
Delta compression using up to 2 threads
Compressing objects: 100% (7/7), done.
Writing objects: 100% (8/8), 990 bytes | 330.00 KiB/s, done.
Total 8 (delta 3), reused 0 (delta 0), pack-reused 0
To gitlab.com:test7115433/mobikart.git
 edf48f1..a46fec0  main -> main
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$

```

Activate Windows
Go to Settings to activate Windows.

```

even_odd.sh 229 B
1  echo '-----Even or Odd number check program-1-----'
2
3  echo 'Enter a positive number'
4
5  read n
6
7  echo '-----Here is the Result-----'
8
9  if [ `expr $n % 2` == 0 ]
10 then
11     echo 'Number iss Even'
12 else
13     echo 'Number iss Odd'
14 fi
15

```


Assignment-7:

Create a file name as marks.txt and write the data as student name, subject and marks. By using awk command print the details as per the user requirement.

```
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ nano marks.txt
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ cat marks.txt
sno    name    subject    marks
1      amith   Maths      87
2      rahul   science    56
3      rohith  english    79
4      laxman  physics    90
5      reethu  Hindi      86
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ awk '{print $2}'
marks.txt
^Z
[1]+  Stopped                  awk '{print $2}'
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ awk '{print $2}' marks.txt
name
amith
rahul
rohith
laxman
reethu
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ awk '{print $2 "\t" $3}' marks.txt
name    subject
amith    Maths
rahul    science
rohith   english
laxman   physics
reethu   Hindi
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ awk '/m/ {print $0}' marks.txt
sno    name    subject    marks
```

```
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ awk '/m/ {print $0}' marks.txt
sno    name    subject    marks
1      amith   Maths      87
4      laxman  physics    90
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ awk '/8/ {print $0}' marks.txt
1      amith   Maths      87
5      reethu  Hindi      86
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ awk '/9/ {print $0}' marks.txt
3      rohith  english    79
4      laxman  physics    90
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ cat marks.txt
sno    name    subject    marks
1      amith   Maths      87
2      rahul   science    56
3      rohith  english    79
4      laxman  physics    90
5      reethu  Hindi      86
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ sed 's/amith/smith/' marks.txt
sno    name    subject    marks
1      smith   Maths      87
2      rahul   science    56
3      rohith  english    79
4      laxman  physics    90
5      reethu  Hindi      86
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ cat marks.txt
sno    name    subject    marks
1      amith   Maths      87
2      rahul   science    56
3      rohith  english    79
```

```
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ cat marks.txt
sno    name    subject    marks
1      amith   Maths      87
2      rahul   science    56
3      rohith  english    79
4      laxman  physics    90
5      reethu  Hindi      86
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ sed 's/amith/smith/' marks.txt >marks1.txt
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ ls m*
marks1.txt  marks.txt  merge.sh
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ cat marks1.txt
sno    name    subject    marks
1      smith   Maths      87
2      rahul   science    56
3      rohith  english    79
4      laxman  physics    90
5      reethu  Hindi      86
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$ cat marks.txt
sno    name    subject    marks
1      amith   Maths      87
2      rahul   science    56
3      rohith  english    79
4      laxman  physics    90
5      reethu  Hindi      86
rps@rps-virtual-machine:~/mobikart_13_8/mobikart$
```

Activate
Go to Sett