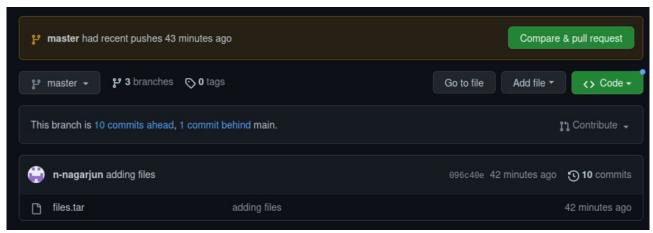
1) Create a public repository in github called "guvi-task-round1" To do in your local terminal: Create a directory named "task-directory" and enter into it. Then create a shell script named 'script.sh' and when executed, your script must do the following: -> Should Create 10 files with txt extension with the word "welcome" present in all 10 files -> Get 2 variables named 'var1' & 'var2', where the values for these variables must be given by user in runtime. -> If the value of 'var1' is equal to 'var2', then entire files in the directory must be made into a single tar file and pushed to "master" branch in your repo. If the values doesn't match, then the entire files in the directory must be pushed to "develop" branch in your repo.

Script.sh

```
# create 10 files with welcome in each
for i in {1..10}; do
  echo "welcome" > welcome$i.txt
done
# get var1 and var2 from user
read -p "Enter value for a: " a
read -p "Enter value for b: " b
# compare var1 and var2
if [ "$a" == "$b" ]; then
  # create tar file
  tar -cvf files.tar *.txt
  # push to master branch
  git init
  git remote add origin git@github.com:n-nagarjun/guvi-task-round1.git
  git branch -m master
  #used this to remove the previous stagged files in the tree if we excecuted else part
  git rm -r.
  git commit
  git add files.tar
  git commit -m "pushing the tar file"
  git push -u origin master
else
  # push to develop branch
  git remote add origin git@github.com:n-nagarjun/guvi-task-round1.git
  git branch -m develop
  git rm -r.
  git commit
  git add *.txt
  git commit -m "pushing text files"
  git push -u origin develop
fi
```

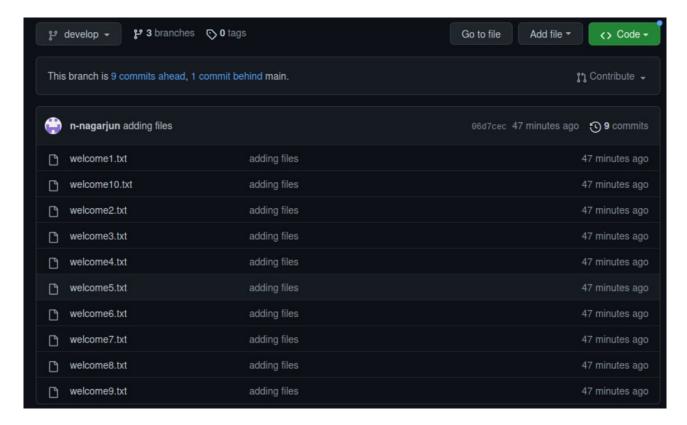
screenshots..

```
arjun@arjun-VivoBook-ASUSLaptop-X570ZD-F570ZD:-/devops/task-directory$ bash script.sh
Enter value for a: 1
Enter value for b: 1
welcome10.txt
welcome1.txt
welcome2.txt
welcome3.txt
welcome3.txt
welcome4.txt
welcome5.txt
welcome6.txt
welcome6.txt
welcome7.txt
welcome7.txt
welcome8.txt
welcome9.txt
Reinitialized existing Git repository in /home/arjun/devops/task-directory/.git/
error: remote origin already exists.
[master 72a5420] adding files
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 files.tar
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 468 bytes | 468.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To github.com:n-nagarjun/guvi-task-round1.git
c8dda51..72a5420 master -> master
branch 'master' set up to track 'origin/master'.
arjun@arjun-VivoBook-ASUSLaptop-X57020:-/devops/task-directory$ git ls-tree -r master
100644 blob 4762ca495bdc89b9e3b1e28a71331395a77c061d files.tar
```



2.

```
arjun@arjun-VivoBook-ASUSLaptop-X570ZD-F570ZD:~/devops/task-directory$ bash script.sh
Enter value for a: 1
Enter value for b: 2
Reinitialized existing Git repository in /home/arjun/devops/task-directory/.git/
 error: remote origin already exists.
[develop dbf1717] adding files
 10 files changed, 10 insertions(+) create mode 100644 welcome1.txt
 create mode 100644 welcome10.txt
 create mode 100644 welcome2.txt
 create mode 100644 welcome3.txt
 create mode 100644 welcome4.txt
 create mode 100644 welcome5.txt
 create mode 100644 welcome6.txt
 create mode 100644 welcome7.txt
 create mode 100644 welcome8.txt
 create mode 100644 welcome9.txt
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 315 bytes | 315.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
 remote: Create a pull request for 'develop' on GitHub by visiting:
                 https://github.com/n-nagarjun/guvi-task-round1/pull/new/develop
remote:
remote:
To github.com:n-nagarjun/guvi-task-round1.git
* [new branch] develop -> develop
branch 'develop' set up to track 'origin/develop'.
```



2) Create 10 files and 10 directories. Create 2 new users called "guviuser" & "zenuser" Modify the permissions where, * the first 5 files & directories must have ownership as 'guviuser' with read,write,execute permissions for everyone * the last 5 files & directories must have ownership as 'zenuser' with only read permission to only the owner

```
script1.sh
# Create 10 directories
for i in {1..10}
do
  mkdir dir$i
done
# Create 10 files
for i in {1..10}
  touch file$i
done
# Create 2 new users
sudo useradd guviuser
sudo useradd zenuser
# Modify permissions for first 5 files and directories
for i in {1..5}
do
  chown guviuser:arjun dir$i file$i
  chmod 777 dir$i file$i
done
# Modify permissions for last 5 files and directories
for i in {6..10}
do
  chown zenuser:arjun dir$i file$i
  chmod 400 dir$i file$i
done
```

```
arjun@arjun-VivoBook-ASUSLaptop-X570ZD-F570ZD:~/
                                                        evops/test$ sudo bash script1.sh
arjun@arjun-VivoBook-ASUSLaptop-X570ZD-F570ZD:~/devops/test$ ls -al
total 56
drwxrwxr-x 13 arjun
                          arjun 4096 Jan 28 01:19
drwxrwxr-x 5 arjun
                          arjun 4096 Jan 27 23:50
             2 guviuser arjun 4096 Jan 28 01:19
2 zenuser arjun 4096 Jan 28 01:19
drwxrwxrwx
                                               01:19
dr-----
             2 guviuser arjun 4096 Jan 28 01:19
2 guviuser arjun 4096 Jan 28 01:19
2 guviuser arjun 4096 Jan 28 01:19
drwxrwxrwx
drwxrwxrwx
drwxrwxrwx
             2 guviuser arjun 4096 Jan 28 01:19
drwxrwxrwx
                          arjun 4096
arjun 4096
              2 zenuser
                                       Jan 28 01:19
             2 zenuser
                                       Jan 28 01:19
              2 zenuser
                          arjun 4096 Jan 28 01:19
             2 zenuser arjun 4096
1 guviuser arjun 0
dr-----
                                       Jan 28 01:19
                                       Jan 28 01:19 file1
- FWXFWXFWX
              1 zenuser
                          arjun
                                    0 Jan 28 01:19 file10
             1 guviuser arjun
1 guviuser arjun
                                    0 Jan 28 01:19 file2
 CMXCMXCMX
                                    0 Jan 28 01:19 file3
 LMXLMXLMX
 FWXFWXFWX
             1 guviuser arjun
                                    0 Jan 28 01:19 file4
             1 guviuser arjun
                                    0 Jan 28 01:19 file5
 CMXCMXCMX
                          arjun
                                    0 Jan 28 01:19 file6
              1 zenuser
                                    0 Jan 28 01:19 file7
              1 zenuser
                          arjun
              1 zenuser
                                    0 Jan 28 01:19 file8
                          arjun
                                       Jan 28 01:19 file9
                zenuser
                          arjun
                                    0
drwxrwxr-x
             8 arjun
                          arjun 4096 Jan 27 21:49
             1 arjun
                          arjun 493 Jan 28 01:14 script1.sh
- FW- FW- F--
 rjun@arjun-VivoBook-ASUSLaptop-X570ZD-F570ZD:~/devops/test$
```

3.Upload a file with set of linux commands to a git repo.

vi - Text editor for editing files

cat - View the contents of a file

less - View the contents of a file one page at a time

tail - View the last few lines of a file

head - View the first few lines of a file

ps - View the processes running on the system

kill - Send a signal to a process to terminate it

top - View the processes using the most system resources

free - View the amount of free and used memory on the system

df - View the amount of free and used disk space

du - View the size of a directory and its subdirectories

passwd - changes passwords for user accounts

useradd - To add user accounts to the system

groupadd - To add user groups to the system

gpasswd - To add users to the group

whoami - To see the currently logged-in user

usermod - To modify or change any attributes of a already created user account

userdel - To delete the user

ping - Test the reachability of a network host

traceroute - View the route packets take to reach a network host

netstat - View network connections and routing information

ifconfig - View and configure network interfaces

ip - to show or manipulate routing, devices, and tunnels & similar to 'ifconfig'

tracepath - To traces path to destination network address

telnet - To check the network connectivity for the system over a TCP/IP network

route - View and configure the routing table

iptables - Configure the Linux firewall

ss - View network socket information

nc - Network utility for reading and writing to network connections

dig - Query DNS servers for information

host - Query DNS servers for informatio

nslookup - Query DNS servers for information

wget - Download files from the internet

curl - Transfer data with URL syntax

rsync - Synchronize files and directories between systems

scp - Securely copy files between systems

ssh - Securely connect to a remote system

sftp - Securely transfer files between systems

ftp - Transfer files between systems

mount - Mount a file system

umount - Unmount a file system

fdisk - Partition and format storage devices

parted - Partition and format storage devices

lsof - List open files

man - To display the user manual of any command

uptime - To find out how long the system is active(running)

service - It is used starts, stop and restart a daemon or services by calling the script

shutdown - To shutdown the system in a safe way

apt-get - To install, remove, and perform other operations on installed software packages yum - To install, remove, and perform other operations on installed software packages

zypper - To install, remove, and perform other operations on installed software packages

pwd - To view the present working directory

ls - Lists the files and directories in the current directory

cd - Changes the current directory

mkdir - Creates a new directory

rmdir - Deletes a directory

history - To view the previously executed command

wc - To find out number of lines, word count, byte and characters count in the files

touch - Creates a new file or updates the existing file

rm - Deletes a file or directory

cp - Copies a file or directorymv - Moves or renames a file or directory

chmod - Changes the permissions of a file or directory

chown - Changes the ownership of a file or directory

find - Search for files in a directory hierarchy

grep - Search for patterns in text