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ROLL NO:422178

ASSIGNMENT : Create a project under CVS/git repository and record multiple versions/branches and practice merging of branches (with a batch of 2 members) using gitbash commands and upload all your previous lab tasks to this repository .

SCREEN SHOTS OF CODE AND OUTPUT:

```
pavan422178@pavan422178-VirtualBox: ~/Desktop/422178_shell_Script/UNIX_LAB
pavan422178@pavan422178-VirtualBox: ~/Desktop$ cd 422178_shell_Script/
pavan422178@pavan422178-VirtualBox: ~/Desktop/422178_shell_Script$ ls
LAB1 LAB2 LAB4 LAB5 LAB6 LAB7 LAB8
pavan422178@pavan422178-VirtualBox: ~/Desktop/422178_shell_Script$ git clone https://github.com/Veeraja-Veeraesh/UNIX_LAB.git
Cloning into 'UNIX_LAB'...
remote: Enumerating objects: 46, done.
remote: Counting objects: 100% (46/46), done.
remote: Compressing objects: 100% (38/38), done.
remote: Total 46 (delta 9), reused 46 (delta 9), pack-reused 0
Receiving objects: 100% (46/46), 27.00 KiB | 253.00 KiB/s, done.
Resolving deltas: 100% (9/9), done.
pavan422178@pavan422178-VirtualBox: ~/Desktop/422178_shell_Script$ ls
LAB1 LAB2 LAB4 LAB5 LAB6 LAB7 LAB8 UNIX_LAB
pavan422178@pavan422178-VirtualBox: ~/Desktop/422178_shell_Script$ cd UNIX_LAB
pavan422178@pavan422178-VirtualBox: ~/Desktop/422178_shell_Script/UNIX_LAB$ git status
On branch branch_2
Your branch is up to date with 'origin/branch_2'.

nothing to commit, working tree clean
pavan422178@pavan422178-VirtualBox: ~/Desktop/422178_shell_Script/UNIX_LAB$ git checkout -b branch_1
Switched to a new branch 'branch_1'
pavan422178@pavan422178-VirtualBox: ~/Desktop/422178_shell_Script/UNIX_LAB$ mkdir 422178_Lab
pavan422178@pavan422178-VirtualBox: ~/Desktop/422178_shell_Script/UNIX_LAB$ git add .
pavan422178@pavan422178-VirtualBox: ~/Desktop/422178_shell_Script/UNIX_LAB$ git status
On branch branch_1
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   422178_Lab/LAB1/SecondLargestElement.sh
    new file:   422178_Lab/LAB1/SumOfNsquares.sh
    new file:   422178_Lab/LAB1/Variables_in_sh.sh
    new file:   422178_Lab/LAB1/factorial.sh
    new file:   422178_Lab/LAB1/fibonacci.sh
    new file:   422178_Lab/LAB1/hello.sh
    new file:   422178_Lab/LAB1/palindrome_check.sh
    new file:   422178_Lab/LAB2/file1.txt
    new file:   422178_Lab/LAB2/file2.txt
    new file:   422178_Lab/LAB2/file3.txt
    new file:   422178_Lab/LAB2/file4.txt
    new file:   422178_Lab/LAB2/file5.txt
    new file:   422178_Lab/LAB4/awk_file.sh
    new file:   422178_Lab/LAB4/cpio.sh
    new file:   422178_Lab/LAB4/cpio_file.sh
    new file:   422178_Lab/LAB4/cpio_out.txt
    new file:   422178_Lab/LAB4/file.tar
    new file:   422178_Lab/LAB4/file.tar.gz
    new file:   422178_Lab/LAB4/file1.txt
```

```
pavan422178@pavan422178-VirtualBox: ~/Desktop/422178_shell_Script/UNIX_LAB

new file:   422178_Lab/LAB4/file.tar.gz
new file:   422178_Lab/LAB4/file1.txt
new file:   422178_Lab/LAB4/file2.tar.gz
new file:   422178_Lab/LAB4/in.txt
new file:   422178_Lab/LAB4/new_file.tar
new file:   422178_Lab/LAB4/newfile.txt
new file:   422178_Lab/LAB4/os.c
new file:   422178_Lab/LAB4/out.txt
new file:   422178_Lab/LAB4/output.txt
new file:   422178_Lab/LAB4/output_awk.txt
new file:   422178_Lab/LAB4/output_cpio.txt
new file:   422178_Lab/LAB4/output_cpiofile.txt
new file:   422178_Lab/LAB4/output_sedfile.txt
new file:   422178_Lab/LAB4/sed_file.sh
new file:   422178_Lab/LAB4/tar_file.sh
new file:   422178_Lab/LAB5/TASK1/eg_dynamic.so
new file:   422178_Lab/LAB5/TASK1/eg_static.a
new file:   422178_Lab/LAB5/TASK1/fact.c
new file:   422178_Lab/LAB5/TASK1/fact_obj.c
new file:   422178_Lab/LAB5/TASK1/fact_obj.o
new file:   422178_Lab/LAB5/TASK1/head.h
new file:   422178_Lab/LAB5/TASK1/main.c
new file:   422178_Lab/LAB5/TASK1/main_obj.o
new file:   422178_Lab/LAB5/TASK1/main_result
new file:   422178_Lab/LAB5/TASK1/sum.c
new file:   422178_Lab/LAB5/TASK1/sum_obj.o
new file:   422178_Lab/LAB5/TASK2/STACK_EXE.txt
new file:   422178_Lab/LAB5/TASK2/destroy.c
new file:   422178_Lab/LAB5/TASK2/destroy_obj.o
new file:   422178_Lab/LAB5/TASK2/dynamic.sh
new file:   422178_Lab/LAB5/TASK2/dynamic_out.txt
new file:   422178_Lab/LAB5/TASK2/eg_dynamic.so
new file:   422178_Lab/LAB5/TASK2/eg_static.a
new file:   422178_Lab/LAB5/TASK2/head.h
new file:   422178_Lab/LAB5/TASK2/init.c
new file:   422178_Lab/LAB5/TASK2/init_obj.o
new file:   422178_Lab/LAB5/TASK2/isEmpty.c
new file:   422178_Lab/LAB5/TASK2/isEmpty_obj.o
new file:   422178_Lab/LAB5/TASK2/isFull.c
new file:   422178_Lab/LAB5/TASK2/isFull_obj.o
new file:   422178_Lab/LAB5/TASK2/main.c
new file:   422178_Lab/LAB5/TASK2/main_obj.o
new file:   422178_Lab/LAB5/TASK2/main_result
new file:   422178_Lab/LAB5/TASK2/peek.c
new file:   422178_Lab/LAB5/TASK2/peek_obj.o
new file:   422178_Lab/LAB5/TASK2/pop.c
```

```
pavan422178@pavan422178-VirtualBox: ~/Desktop/422178_shell_Script/UNIX_LAB

new file:   422178_Lab/LAB5/TASK2/static.sh
new file:   422178_Lab/LAB5/TASK2/static_out.txt
new file:   422178_Lab/LAB6/a.out
new file:   422178_Lab/LAB6/bst_seg.c
new file:   422178_Lab/LAB6/bst_seg.txt
new file:   422178_Lab/LAB6/rev_seg.c
new file:   422178_Lab/LAB6/rev_seg.txt
new file:   422178_Lab/LAB8/HELLO/SecondLargestElement.sh
new file:   422178_Lab/LAB8/HELLO/SumOfNsquares.sh
new file:   422178_Lab/LAB8/HELLO/Variables_in_sh.sh
new file:   422178_Lab/LAB8/HELLO/fibonacci.sh
new file:   422178_Lab/LAB8/HELLO/file1.txt
new file:   422178_Lab/LAB8/HELLO/hello.sh
new file:   422178_Lab/LAB8/HELLO/palindrome_check.sh
new file:   422178_Lab/LAB8/factorial.sh
new file:   422178_Lab/LAB8/file1.txt
new file:   422178_Lab/LAB8/file2.txt
new file:   422178_Lab/LAB8/file3.txt
new file:   422178_Lab/LAB8/lab0.sh

pavan422178@pavan422178-VirtualBox: ~/Desktop/422178_shell_Script/UNIX_LAB$ git config --global user.name "unixlab8"
pavan422178@pavan422178-VirtualBox: ~/Desktop/422178_shell_Script/UNIX_LAB$ git config --global user.email "unixlab8@gmail.com"
pavan422178@pavan422178-VirtualBox: ~/Desktop/422178_shell_Script/UNIX_LAB$ git commit -m "ADDED 422178 LAB Files"
[branch_1_8335205] ADDED 422178 LAB Files
86 files changed, 2178 insertions(+)
create mode 100755 422178_Lab/LAB1/SecondLargestElement.sh
create mode 100755 422178_Lab/LAB1/SumOfNsquares.sh
create mode 100755 422178_Lab/LAB1/Variables_in_sh.sh
create mode 100755 422178_Lab/LAB1/factorial.sh
create mode 100755 422178_Lab/LAB1/fibonacci.sh
create mode 100755 422178_Lab/LAB1/hello.sh
create mode 100755 422178_Lab/LAB1/palindrome_check.sh
create mode 100644 422178_Lab/LAB2/file1.txt
create mode 100644 422178_Lab/LAB2/file2.txt
create mode 100644 422178_Lab/LAB2/file3.txt
create mode 100644 422178_Lab/LAB2/file4.txt
create mode 100644 422178_Lab/LAB2/file5.txt
create mode 100755 422178_Lab/LAB4/awk_file.sh
create mode 100755 422178_Lab/LAB4/cpio.sh
create mode 100755 422178_Lab/LAB4/cpio_file.sh
create mode 100644 422178_Lab/LAB4/cpio_out.txt
create mode 100644 422178_Lab/LAB4/file.tar
create mode 100644 422178_Lab/LAB4/file.tar.gz
create mode 100644 422178_Lab/LAB4/file1.txt
create mode 100644 422178_Lab/LAB4/file2.tar.gz
create mode 100644 422178_Lab/LAB4/in.txt
create mode 100644 422178_Lab/LAB4/new_file.tar
```

```
pavan422178@pavan422178-VirtualBox: ~/Desktop/422178_shell_Script/UNIX_LAB

create mode 100644 422178_Lab/LAB4/in.txt
create mode 100644 422178_Lab/LAB4/new_file.tar
create mode 100644 422178_Lab/LAB4/newfile.txt
create mode 100644 422178_Lab/LAB4/os.c
create mode 100644 422178_Lab/LAB4/out.txt
create mode 100644 422178_Lab/LAB4/output.txt
create mode 100644 422178_Lab/LAB4/output_awk.txt
create mode 100644 422178_Lab/LAB4/output_cpio.txt
create mode 100644 422178_Lab/LAB4/output_cpiofile.txt
create mode 100644 422178_Lab/LAB4/output_sedfile.txt
create mode 100644 422178_Lab/LAB4/output_tarfile.txt
create mode 100755 422178_Lab/LAB4/sed_file.sh
create mode 100755 422178_Lab/LAB4/tar_file.sh
create mode 100755 422178_Lab/LAB5/TASK1/eg_dynamic.so
create mode 100644 422178_Lab/LAB5/TASK1/eg_static.a
create mode 100755 422178_Lab/LAB5/TASK1/fact.c
create mode 100644 422178_Lab/LAB5/TASK1/fact_obj.c
create mode 100644 422178_Lab/LAB5/TASK1/fact_obj.o
create mode 100755 422178_Lab/LAB5/TASK1/head.h
create mode 100755 422178_Lab/LAB5/TASK1/main.c
create mode 100644 422178_Lab/LAB5/TASK1/main_obj.o
create mode 100755 422178_Lab/LAB5/TASK1/main_result
create mode 100755 422178_Lab/LAB5/TASK1/sum.c
create mode 100644 422178_Lab/LAB5/TASK1/sum_obj.o
create mode 100755 422178_Lab/LAB5/TASK2/STACK_EXE.txt
create mode 100755 422178_Lab/LAB5/TASK2/destroy.c
create mode 100644 422178_Lab/LAB5/TASK2/destroy_obj.o
create mode 100755 422178_Lab/LAB5/TASK2/dynamic.sh
create mode 100644 422178_Lab/LAB5/TASK2/dynamic_out.txt
create mode 100755 422178_Lab/LAB5/TASK2/eg_dynamic.so
create mode 100644 422178_Lab/LAB5/TASK2/eg_static.a
create mode 100755 422178_Lab/LAB5/TASK2/head.h
create mode 100755 422178_Lab/LAB5/TASK2/init.c
create mode 100644 422178_Lab/LAB5/TASK2/init_obj.o
create mode 100755 422178_Lab/LAB5/TASK2/isEmpty.c
create mode 100644 422178_Lab/LAB5/TASK2/isEmpty_obj.o
create mode 100755 422178_Lab/LAB5/TASK2/isEmpty.c
create mode 100644 422178_Lab/LAB5/TASK2/isEmpty_obj.o
create mode 100755 422178_Lab/LAB5/TASK2/peek.c
create mode 100644 422178_Lab/LAB5/TASK2/peek_obj.o
create mode 100755 422178_Lab/LAB5/TASK2/pop.c
create mode 100644 422178_Lab/LAB5/TASK2/pop_obj.o
create mode 100755 422178_Lab/LAB5/TASK2/push.c
create mode 100644 422178_Lab/LAB5/TASK2/push_obj.o
```

```
pavan422178@pavan422178-VirtualBox: ~/Desktop/422178_shell_Script/UNIX_LAB
create mode 100644 422178_Lab/LAB5/TASK2/push_obj.o
create mode 100755 422178_Lab/LAB5/TASK2/static.sh
create mode 100644 422178_Lab/LAB5/TASK2/static_out.txt
create mode 100755 422178_Lab/LAB6/a.out
create mode 100755 422178_Lab/LAB6/bst_seg.c
create mode 100755 422178_Lab/LAB6/bst_seg.txt
create mode 100755 422178_Lab/LAB6/rev_seg.c
create mode 100755 422178_Lab/LAB6/rev_seg.txt
create mode 100755 422178_Lab/LAB8/HELLO/SecondLargestElement.sh
create mode 100755 422178_Lab/LAB8/HELLO/SumOfNsquares.sh
create mode 100755 422178_Lab/LAB8/HELLO/Variables_in_sh.sh
create mode 100755 422178_Lab/LAB8/HELLO/fibonacci.sh
create mode 100644 422178_Lab/LAB8/HELLO/file1.txt
create mode 100755 422178_Lab/LAB8/HELLO/hello.sh
create mode 100755 422178_Lab/LAB8/HELLO/palindrome_check.sh
create mode 100755 422178_Lab/LAB8/factorial.sh
create mode 100644 422178_Lab/LAB8/file1.txt
create mode 100644 422178_Lab/LAB8/file2.txt
create mode 100644 422178_Lab/LAB8/file3.txt
create mode 100755 422178_Lab/LAB8/lab8.sh
pavan422178@pavan422178-VirtualBox: ~/Desktop/422178_shell_Script/UNIX_LAB$ git remote -v
origin https://github.com/Veeraja-Veeraash/UNIX_LAB.git (fetch)
origin https://github.com/Veeraja-Veeraash/UNIX_LAB.git (push)
pavan422178@pavan422178-VirtualBox: ~/Desktop/422178_shell_Script/UNIX_LAB$ git remote set-url origin https://ghp_2EVhg1APfZkAF30yhJQJgkNFagL3C3JQzGzGM@github.com/Veeraja-Veeraash/UNIX_LAB.git/
pavan422178@pavan422178-VirtualBox: ~/Desktop/422178_shell_Script/UNIX_LAB$ git remote -v
origin https://ghp_2EVhg1APfZkAF30yhJQJgkNFagL3C3JQzGzGM@github.com/Veeraja-Veeraash/UNIX_LAB.git/ (fetch)
origin https://ghp_2EVhg1APfZkAF30yhJQJgkNFagL3C3JQzGzGM@github.com/Veeraja-Veeraash/UNIX_LAB.git/ (push)
pavan422178@pavan422178-VirtualBox: ~/Desktop/422178_shell_Script/UNIX_LAB$ git push origin branch_1
remote: Permission to Veeraja-Veeraash/UNIX_LAB.git denied to unixlab8.
fatal: unable to access 'https://github.com/Veeraja-Veeraash/UNIX_LAB.git/': The requested URL returned error: 403
pavan422178@pavan422178-VirtualBox: ~/Desktop/422178_shell_Script/UNIX_LAB$ git push origin branch_1
remote: Permission to Veeraja-Veeraash/UNIX_LAB.git denied to unixlab8.
fatal: unable to access 'https://github.com/Veeraja-Veeraash/UNIX_LAB.git/': The requested URL returned error: 403
pavan422178@pavan422178-VirtualBox: ~/Desktop/422178_shell_Script/UNIX_LAB$ git push origin branch_1
Enumerating objects: 83, done.
Counting objects: 100% (83/83), done.
Delta compression using up to 13 threads
Compressing objects: 100% (74/74), done.
Writing objects: 100% (82/82), 33.36 KiB | 588.00 KiB/s, done.
Total 82 (delta 20), reused 5 (delta 2), pack-reused 0
remote: Resolving deltas: 100% (20/20), done.
remote:
remote: Create a pull request for 'branch_1' on GitHub by visiting:
remote:   https://github.com/Veeraja-Veeraash/UNIX_LAB/pull/new/branch_1
remote:
To https://github.com/Veeraja-Veeraash/UNIX_LAB.git/
 * [new branch]      branch_1 -> branch_1
```

OUTPUT :



