# ASSIGNMENT - 5
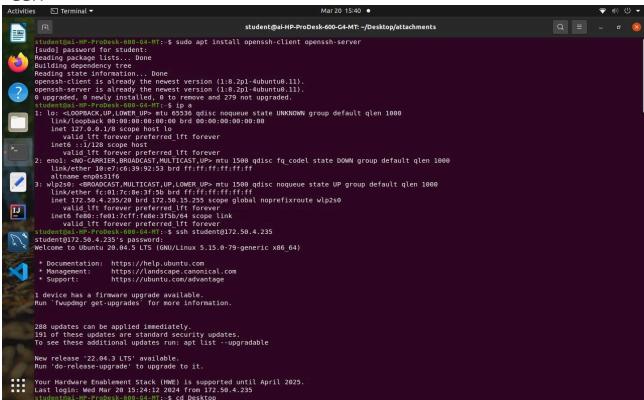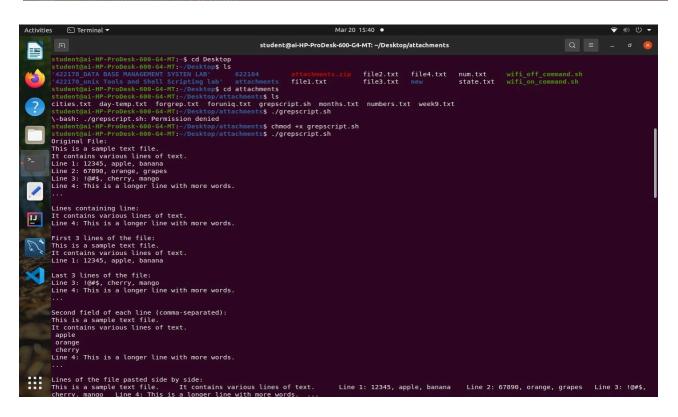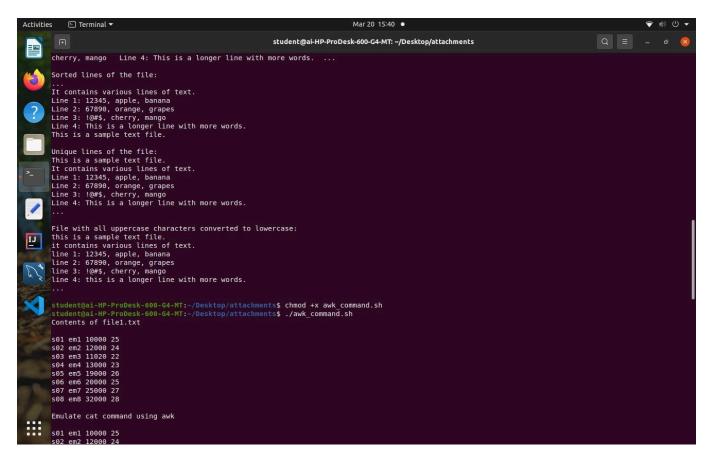
1. Using SSH command execute the three programs on two different machines.
2. Create a project under CVS/git repository and record multiple versions/branchesand practice merging of branches (with a batch of 2 members) using gitbash commands and upload all your previous lab tasks to this repository .

**SSH**

**student@ai-HP-ProDesk-600-G4-MT: ~/Desktop/attachments**

```
cherry, mango    Line 4: This is a longer line with more words.   ...

Sorted lines of the file:
...
It contains various lines of text.
Line 1: 12345, apple, banana
Line 2: 67890, orange, grapes
Line 3: !@#$, cherry, mango
Line 4: This is a longer line with more words.
This is a sample text file.

Unique lines of the file:
This is a sample text file.
It contains various lines of text.
Line 1: 12345, apple, banana
Line 2: 67890, orange, grapes
Line 3: !@#$, cherry, mango
Line 4: This is a longer line with more words.
...

File with all uppercase characters converted to lowercase:
this is a sample text file.
it contains various lines of text.
line 1: 12345, apple, banana
line 2: 67890, orange, grapes
line 3: !@#$, cherry, mango
line 4: this is a longer line with more words.
...

student@ai-HP-ProDesk-600-G4-MT:~/Desktop/attachments$ chmod +x awk_command.sh
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/attachments$ ./awk_command.sh
Contents of file1.txt

s01 em1 10000 25
s02 em2 12000 24
s03 em3 11020 22
s04 em4 13000 23
s05 em5 19000 26
s06 em6 20000 25
s07 em7 25000 27
s08 em8 32000 28

Emulate cat command using awk

s01 em1 10000 25
s02 em2 12000 24
```

**student@ai-HP-ProDesk-600-G4-MT: ~/Desktop/attachments**

```
s02 em2 12000 24
s03 em3 11020 22
s04 em4 13000 23
s05 em5 19000 26
s06 em6 20000 25
s07 em7 25000 27
s08 em8 32000 28

printing only first two columns using awk

s01 em1
s02 em2
s03 em3
s04 em4
s05 em5
s06 em6
s07 em7
s08 em8

printing records starting with s and ending with 25

s01 em1 10000 25
s06 em6 20000 25

printing sum of values in field 3

Sum= 142020
Average= 17752.50

print substring containing last 2 letters of field 1, field2 and first two digits of field 3

01   em1   10
02   em2   12
03   em3   11
04   em4   13
05   em5   19
06   em6   20
07   em7   25
08   em8   32

print junior if 3rd column less than equal to 15000
s01 junior
s02 junior
s03 junior
s04 junior
s05 senior
```

```
03    em3    11
04    em4    13
05    em5    19
06    em6    20
07    em7    25
08    em8    32

print junior if 3rd column less than equal to 15000
s01 junior
s02 junior
s03 junior
s04 junior
s05 senior
s06 senior
s07 senior
s08 senior

print squares of the numbers in field 4
25 squared = 625
24 squared = 576
22 squared = 484
23 squared = 529
26 squared = 676
25 squared = 625
27 squared = 729
28 squared = 784

Count the number of words in the file

No of records= 8
No of words= 32
No of characters= 136

Enter a number to calculate sum of first n numbers

25 = 325
24 = 300
22 = 253
23 = 276
26 = 351
25 = 325
27 = 378
28 = 406

student@ai-HP-ProDesk-600-G4-MT:~/Desktop/attachments$
```

**REPOSITORY**

**REPO LINK : https://github.com/VenkataCha23/UNIX-Lab**



```
student@ai-HP-ProDesk-600-G4-MT:~$ cd Desktop
student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ cd 422133
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422133$ git clone https://github.com/VenkataCh23/UNIX-Lab
Cloning into 'UNIX-Lab'...
warning: You appear to have cloned an empty repository.
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422133$ ls
'Assignment - 1'  'Assignment - 2'  'Assignment - 3'  'Assignment - 4'   Others   UNIX-Lab
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422133$ cd UNIX-LAB
bash: cd: UNIX-LAB: No such file or directory
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422133$ cd UNIX-Lab
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422133/UNIX-Lab$ git status
On branch master

No commits yet

nothing to commit (create/copy files and use "git add" to track)
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422133/UNIX-Lab$ git checkout -b branch_1
Switched to a new branch 'branch_1'
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422133/UNIX-Lab$ ls
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422133/UNIX-Lab$ git status
On branch branch_1

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        Assignment - 1/
        Assignment - 2/
        Assignment - 3/
        Assignment - 4/
        Others/

nothing added to commit but untracked files present (use "git add" to track)
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422133/UNIX-Lab$ git add .
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422133/UNIX-Lab$ git status
On branch branch_1

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   Assignment - 1/Assignment - 1.pdf
        new file:   Assignment - 2/awk_out.txt
        new file:   Assignment - 2/file1.txt
        new file:   Assignment - 2/sed.sh
        new file:   Assignment - 2/sed_out.txt
```

```
Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   Assignment - 1/Assignment - 1.pdf
        new file:   Assignment - 2/awk_out.txt
        new file:   Assignment - 2/file1.txt
        new file:   Assignment - 2/sed.sh
        new file:   Assignment - 2/sed_out.txt
        new file:   Assignment - 2/tar.sh
        new file:   Assignment - 2/tar_out.txt
        new file:   Assignment - 3/Assignment-3.pdf
        new file:   Assignment - 3/Assignment_3.txt
        new file:   Assignment - 4/Assignment-4.pdf
        new file:   Assignment - 4/Assignment-4.txt
        new file:   Others/eg_dynamic.so
        new file:   Others/eg_static.a
        new file:   Others/fact.c
        new file:   Others/fact_obj.o
        new file:   Others/g
        new file:   Others/head.h
        new file:   Others/main.c
        new file:   Others/main_obj.o
        new file:   Others/main_result
        new file:   Others/prog.c
        new file:   Others/prog2.c
        new file:   Others/sum.c
        new file:   Others/sum_obj.o

student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422133/UNIX-Lab$ git commit -m "Added Files"

*** 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 'student@ai-HP-ProDesk-600-G4-MT.(none)')
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422133/UNIX-Lab$ git config --global user.email "CVCcharan23@gmail.com"
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422133/UNIX-Lab$ git config --global user.name "VenkataCh23"
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422133/UNIX-Lab$ git commit -m "Added Files"
[branch_1 (root-commit) 58e2673] Added Files
 24 files changed, 395 insertions(+)
 create mode 100644 Assignment - 1/Assignment - 1.pdf
```

```
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422133/UNIX-Lab$ git config --global user.email "CVCcharan23@gmail.com"
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422133/UNIX-Lab$ git config --global user.name "VenkataCh23"
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422133/UNIX-Lab$ git commit -m "Added Files"
[branch_1 (root-commit) 58e2673] Added Files
 24 files changed, 395 insertions(+)
 create mode 100644 Assignment - 1/Assignment - 1.pdf
 create mode 100644 Assignment - 2/awk_out.txt
 create mode 100644 Assignment - 2/file1.txt
 create mode 100644 Assignment - 2/sed.sh
 create mode 100644 Assignment - 2/sed_out.txt
 create mode 100644 Assignment - 2/tar.sh
 create mode 100644 Assignment - 2/tar_out.txt
 create mode 100644 Assignment - 3/Assignment-3.pdf
 create mode 100644 Assignment - 3/Assignment_3.txt
 create mode 100644 Assignment - 4/Assignment-4.pdf
 create mode 100644 Assignment - 4/Assignment-4.txt
 create mode 100755 Others/eg_dynamic.so
 create mode 100644 Others/eg_static.a
 create mode 100644 Others/fact.c
 create mode 100644 Others/fact_obj.o
 create mode 100755 Others/g
 create mode 100644 Others/head.h
 create mode 100644 Others/main.c
 create mode 100644 Others/main_obj.o
 create mode 100755 Others/main_result
 create mode 100644 Others/prog.c
 create mode 100644 Others/prog2.c
 create mode 100644 Others/sum.c
 create mode 100644 Others/sum_obj.o
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422133/UNIX-Lab$ git push origin branch_1
Username for 'https://github.com': VenkataCh23
Password for 'https://VenkataCh23@github.com':
remote: Support for password authentication was removed on August 13, 2021.
remote: Please see https://docs.github.com/get-started/getting-started-with-git/about-remote-repositories#cloning-with-https-urls for information on currently recommended modes of a
uthentication.
fatal: Authentication failed for 'https://github.com/VenkataCh23/UNIX-Lab/'
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422133/UNIX-Lab$ git remote set -url origin https://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@github.com/VenkataCh23/UNIX-Lab
error: Unknown subcommand: set
usage: git remote [-v | --verbose]
   or: git remote add [-t <branch>] [-m <master>] [-f] [--tags | --no-tags] [--mirror=<fetch|push>] <name> <url>
   or: git remote rename <old> <new>
   or: git remote remove <name>
   or: git remote set-head <name> (-a | --auto | -d | --delete | <branch>)
   or: git remote [-v | --verbose] show [-n] <name>
   or: git remote prune [-n | --dry-run] <name>
   or: git remote [-v | --verbose] update [-p | --prune] [(<group> | <remote>)...]
```

```
create mode 100755 Others/g
create mode 100644 Others/head.h
create mode 100644 Others/main.c
create mode 100644 Others/main_obj.o
create mode 100755 Others/main_result
create mode 100644 Others/prog.c
create mode 100644 Others/prog2.c
create mode 100644 Others/sum.c
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student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422133/UNIX-Lab$ git push origin branch_1
Username for 'https://github.com': VenkataCh23
Password for 'https://VenkataCh23@github.com':
remote: Support for password authentication was removed on August 13, 2021.
remote: Please see https://docs.github.com/get-started/getting-started-with-git/about-remote-repositories#cloning-with-https-urls for information on currently recommended modes of a
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student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422133/UNIX-Lab$ git remote set -url origin https://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@github.com/VenkataCh23/UNIX-Lab
error: Unknown subcommand: set
usage: git remote [-v | --verbose]
   or: git remote add [-t <branch>] [-m <master>] [-f] [--tags | --no-tags] [--mirror=<fetch|push>] <name> <url>
   or: git remote rename <old> <new>
   or: git remote remove <name>
   or: git remote set-head <name> (-a | --auto | -d | --delete | <branch>)
   or: git remote [-v | --verbose] show [-n] <name>
   or: git remote prune [-n | --dry-run] <name>
   or: git remote [-v | --verbose] update [-p | --prune] [(<group> | <remote>)...]
   or: git remote set-branches [--add] <name> <branch>...
   or: git remote get-url [--push] [--all] <name>
   or: git remote set-url [--push] <name> <newurl> [<oldurl>]
   or: git remote set-url --add <name> <newurl>
   or: git remote set-url --delete <name> <url>

    -v, --verbose         be verbose; must be placed before a subcommand

student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422133/UNIX-Lab$ git remote set-url origin https://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@github.com/VenkataCh23/UNIX-Lab
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422133/UNIX-Lab$ git push origin branch_1
Enumerating objects: 31, done.
Counting objects: 100% (31/31), done.
Delta compression using up to 12 threads
Compressing objects: 100% (30/30), done.
Writing objects: 100% (31/31), 7.95 MiB | 2.38 MiB/s, done.
Total 31 (delta 5), reused 0 (delta 0)
remote: Resolving deltas: 100% (5/5), done.
To https://github.com/VenkataCh23/UNIX-Lab
 * [new branch]      branch_1 -> branch_1
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422133/UNIX-Lab$
```

VenkataCh23/UNIX-Lab

github.com/VenkataCh23/UNIX-Lab

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