

NAME: A REVANTH REDDY

ROLL NO : 422113

### ASSIGNMENT-5

Q1) 1. Using SSH command execute the three programs on two different machines.

```
Activities Terminal Mar 20 16:30 student@ai-HP-ProDesk-600-G4-MT: ~/Desktop/UNIX/week_5

(base) student@ai-HP-ProDesk-600-G4-MT:~$
(base) student@ai-HP-ProDesk-600-G4-MT:~$ ssh student@172.50.10.64
The authenticity of host '172.50.10.64 (172.50.10.64)' can't be established.
ECDSA key fingerprint is SHA256:kZDuHgZ38H2vCNIdKZ7bbWZzFPoThoKaP5wZucx0A8.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '172.50.10.64' (ECDSA) to the list of known hosts.
student@172.50.10.64's password:
Welcome to Ubuntu 20.04.5 LTS (GNU/Linux 5.15.0-88-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

282 updates can be applied immediately.
164 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable

New release '22.04.3 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

3 updates could not be installed automatically. For more details,
see /var/log/unattended-upgrades/unattended-upgrades.log
Your Hardware Enablement Stack (HWE) is supported until April 2025.
Last login: Wed Mar 20 16:19:05 2024 from 172.50.10.175
student@ai-HP-ProDesk-600-G4-MT:~$ cd Desktop
student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ ls
422113.java  a  a.out  BitStuff.java  'np lab'  sandeep.queue5.1.24  sshRev2.png  sshRev5.png  tcp.java
622133      ABCD  ap.html  DBMS          s1223.py  s1ld.java          sshRev3.png  stuffing.class  UNIX
6.py        afv.py BitStuff.class  fac.py     s1233.py  sshRev1.png        sshRev4.png  task22.cpp      unixptcs1
student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ python3 fac.py
fac of 5 is :120
student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ cd UNIX
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/UNIX$ ls
week_5  week_6  week_7
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/UNIX$ cd week_5
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/UNIX/week_5$ ls
awk_out.txt  awk.sh  file1.txt  file2.txt  file.tar  file.tar.gz  file.tar.tbz  sed_out.txt  sed.sh  tar_out.txt  tar.sh
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/UNIX/week_5$ ./awk.sh
1)422164  PARDHU  CSE  28
2)422131  YESWANTH  ECE  27
3)422134  KARTHIK  EEE  24
4)422167  DIKAKAR  MME  21
5)622268  VENKAT  MECH  23
6)722178  RUDRA  CIVIL  19
7)522164  DEEPAK  EEE  24
8)522145  DHEERAJ  EEE  22
9)322133  RAHUL  CSE  26

awk: cmd. line:1: (FILENAME=file1.txt FNR=1) fatal: printf: no arguments
1)422164  CSE
2)422131  ECE
3)422134  EEE
4)422167  MME
5)622268  MECH
6)722178  CIVIL
7)522164  EEE
8)522145  EEE
9)322133  CSE

214
19.4545
)42
)42
)42
)62
)72
)52
)52
)32

28
27
24
21
23
19
24
22
26

senior
senior
junior
junior
junior
```

```
Activities Terminal Mar 20 16:30 student@ai-HP-ProDesk-600-G4-MT: ~/Desktop/UNIX/week_5

676
0
0
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/UNIX/week_5$ ./sed.sh
1)422164 PARDHU CSE 28
2)422131 YESWANTH ECE 27
3)422134 KARTHIK EEE 24
4)422167 DIWAKAR MME 21
5)622268 VENKAT MECH 23
6)722178 RUDRA CIVIL 19
7)522164 DEEPAK EEE 24
8)522145 DHEERAJ EEE 22
9)322133 RAHUL CSE 26

1)422164 PARDHU CSE 28
2)422131 YESWANTH ECE 27
3)422134 KARTHIK EEE 24
4)422167 DIWAKAR MME 21
5)622268 VENKAT MECH 23
6)722178 RUDRA CIVIL 19
7)522164 DEEPAK EEE 24
8)522145 DHEERAJ EEE 22
9)322133 RAHUL CSE 26

1)422164 PARDHU CSE 28
2)422131 YESWANTH ECE 27
3)422134 KARTHIK EEE 24
4)422167 DIWAKAR MME 21
5)622268 VENKAT MECH 23
6)722178 RUDRA CIVIL 19
7)522164 DEEPAK EEE 24
8)522145 DHEERAJ EEE 22
9)322133 RAHUL CSE 26
```

Q2) 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 . (422121 and 422113)

```
Activities Terminal Apr 3 16:14 student@system-no-57: ~/Desktop/21/unix

error: src refspec master does not match any
error: failed to push some refs to 'https://github.com/rahboddada/unix_lab.git'
student@system-no-57:~/Desktop/21/unix$ git init
Reinitialized existing Git repository in /home/student/Desktop/21/unix/.git/
student@system-no-57:~/Desktop/21/unix$ ls
131      a.out    d.o      er.c     FC.png   Fibonaccl.h  ip.png   p.o      res      s.jpg
132.png  DC.png  driver.c  err.c    FH.png   fib.sh       PC.png  prime.c  res2     stat.a
13c.png  d.jpg   dyn.so   fact.sh  Fibonaccl.c  f.o         PH.png  Prime.h  'Screenshot from 2024-03-28 10-41-35.png'

student@system-no-57:~/Desktop/21/unix$ git add .
student@system-no-57:~/Desktop/21/unix$ git commit -m "Initial commit: adding files"
[master (root-commit) ca53b2e] Initial commit: adding files
29 files changed, 114 insertions(+)
create mode 100644 131
create mode 100644 132.png
create mode 100644 13c.png
create mode 100644 DC.png
create mode 100644 FC.png
create mode 100644 FH.png
create mode 100644 Fibonaccl.c
create mode 100644 Fibonaccl.h
create mode 100644 PC.png
create mode 100644 PH.png
create mode 100644 Prime.h
create mode 100644 Screenshot from 2024-03-28 10-41-35.png
create mode 100644 a.out
create mode 100644 d.jpg
create mode 100644 d.o
create mode 100644 driver.c
create mode 100644 dyn.so
create mode 100644 er.c
create mode 100644 err.c
create mode 100644 f.o
create mode 100755 fact.sh
create mode 100755 fib.sh
create mode 100644 ip.png
create mode 100644 p.o
create mode 100644 prime.c
create mode 100644 res
create mode 100644 res2
create mode 100644 s.jpg
create mode 100644 stat.a

student@system-no-57:~/Desktop/21/unix$ git checkout -b branch1
Switched to a new branch 'branch1'
student@system-no-57:~/Desktop/21/unix$ ls
131      a.out    d.o      er.c     FC.png   Fibonaccl.h  ip.png   p.o      res      s.jpg
132.png  DC.png  driver.c  err.c    FH.png   fib.sh       PC.png  prime.c  res2     stat.a
```

```
Activities Terminal Apr 3 16:14 student@system-no-57: ~/Desktop/21/unix

student@system-no-57:~/Desktop/21/unix$ ls
131 a.out d.o er.c FC.png Fibonacci.h fp.png p.o res s.jpg
132.png DC.png driver.c err.c FH.png fib.sh prime.c res2 stat.a
13c.png d.jpg dyn.so fact.sh Fibonacci.c f.o PC.png Prime.h 'Screenshot from 2024-03-28 10-41-35.png'

student@system-no-57:~/Desktop/21/unix$ cd c_files
bash: cd: c_files: No such file or directory
student@system-no-57:~/Desktop/21/unix$ mkdir c_files
student@system-no-57:~/Desktop/21/unix$ mv er.c driver.c err.c prime.c Fibonacci.c c_files/
student@system-no-57:~/Desktop/21/unix$ git add .
student@system-no-57:~/Desktop/21/unix$ git commit -m "Branch1: organised c files"
[branch1 155cac5] Branch1: organised c files
5 files changed, 0 insertions(+), 0 deletions(-)
rename Fibonacci.c => c_files/Fibonacci.c (100%)
rename driver.c => c_files/driver.c (100%)
rename er.c => c_files/er.c (100%)
rename err.c => c_files/err.c (100%)
rename prime.c => c_files/prime.c (100%)
student@system-no-57:~/Desktop/21/unix$ git add .
student@system-no-57:~/Desktop/21/unix$ git checkout master
Switched to branch 'master'
student@system-no-57:~/Desktop/21/unix$ git merge branch1
Updating ca53b2e..155cac5
Fast-forward
 Fibonacci.c => c_files/Fibonacci.c | 0
 driver.c => c_files/driver.c | 0
 er.c => c_files/er.c | 0
 err.c => c_files/err.c | 0
 prime.c => c_files/prime.c | 0
5 files changed, 0 insertions(+), 0 deletions(-)
rename Fibonacci.c => c_files/Fibonacci.c (100%)
rename driver.c => c_files/driver.c (100%)
rename er.c => c_files/er.c (100%)
rename err.c => c_files/err.c (100%)
rename prime.c => c_files/prime.c (100%)
student@system-no-57:~/Desktop/21/unix$ git remote add origin https://github.com/rahboddeda/unix_lab.git
fatal: remote origin already exists.
student@system-no-57:~/Desktop/21/unix$ git remote remove origin
student@system-no-57:~/Desktop/21/unix$ git remote add origin https://github.com/rahboddeda/unix_lab.git
student@system-no-57:~/Desktop/21/unix$ git push -u origin master
Username for 'https://github.com':
rahboddedaPassword for 'https://github.com':
remote: Repository not found.
fatal: Authentication failed for 'https://github.com/rahboddeda/unix_lab.git/'
student@system-no-57:~/Desktop/21/unix$ git push -u origin master
Username for 'https://github.com': rahboddeda
Password for 'https://rahboddeda@github.com':
```

```
Activities Terminal Apr 3 16:14 student@system-no-57: ~/Desktop/21/unix

rename Fibonacci.c => c_files/Fibonacci.c (100%)
rename driver.c => c_files/driver.c (100%)
rename er.c => c_files/er.c (100%)
rename err.c => c_files/err.c (100%)
rename prime.c => c_files/prime.c (100%)
student@system-no-57:~/Desktop/21/unix$ git add .
student@system-no-57:~/Desktop/21/unix$ git checkout master
Switched to branch 'master'
student@system-no-57:~/Desktop/21/unix$ git merge branch1
Updating ca53b2e..155cac5
Fast-forward
 Fibonacci.c => c_files/Fibonacci.c | 0
 driver.c => c_files/driver.c | 0
 er.c => c_files/er.c | 0
 err.c => c_files/err.c | 0
 prime.c => c_files/prime.c | 0
5 files changed, 0 insertions(+), 0 deletions(-)
rename Fibonacci.c => c_files/Fibonacci.c (100%)
rename driver.c => c_files/driver.c (100%)
rename er.c => c_files/er.c (100%)
rename err.c => c_files/err.c (100%)
rename prime.c => c_files/prime.c (100%)
student@system-no-57:~/Desktop/21/unix$ git remote add origin https://github.com/rahboddeda/unix_lab.git
fatal: remote origin already exists.
student@system-no-57:~/Desktop/21/unix$ git remote remove origin
student@system-no-57:~/Desktop/21/unix$ git remote add origin https://github.com/rahboddeda/unix_lab.git
student@system-no-57:~/Desktop/21/unix$ git push -u origin master
Username for 'https://github.com':
rahboddedaPassword for 'https://github.com':
remote: Repository not found.
fatal: Authentication failed for 'https://github.com/rahboddeda/unix_lab.git/'
student@system-no-57:~/Desktop/21/unix$ git push -u origin master
Username for 'https://github.com': rahboddeda
Password for 'https://rahboddeda@github.com':
Enumerating objects: 34, done.
Counting objects: 100% (34/34), done.
Delta compression using up to 12 threads
Compressing objects: 100% (34/34), done.
Writing objects: 100% (34/34), 1.56 MiB | 572.00 KiB/s, done.
Total 34 (delta 5), reused 0 (delta 0)
remote: Resolving deltas: 100% (5/5), done.
To https://github.com/rahboddeda/unix_lab.git
 * [new branch] master -> master
Branch 'master' set up to track remote branch 'master' from 'origin'.
student@system-no-57:~/Desktop/21/unix$
```