

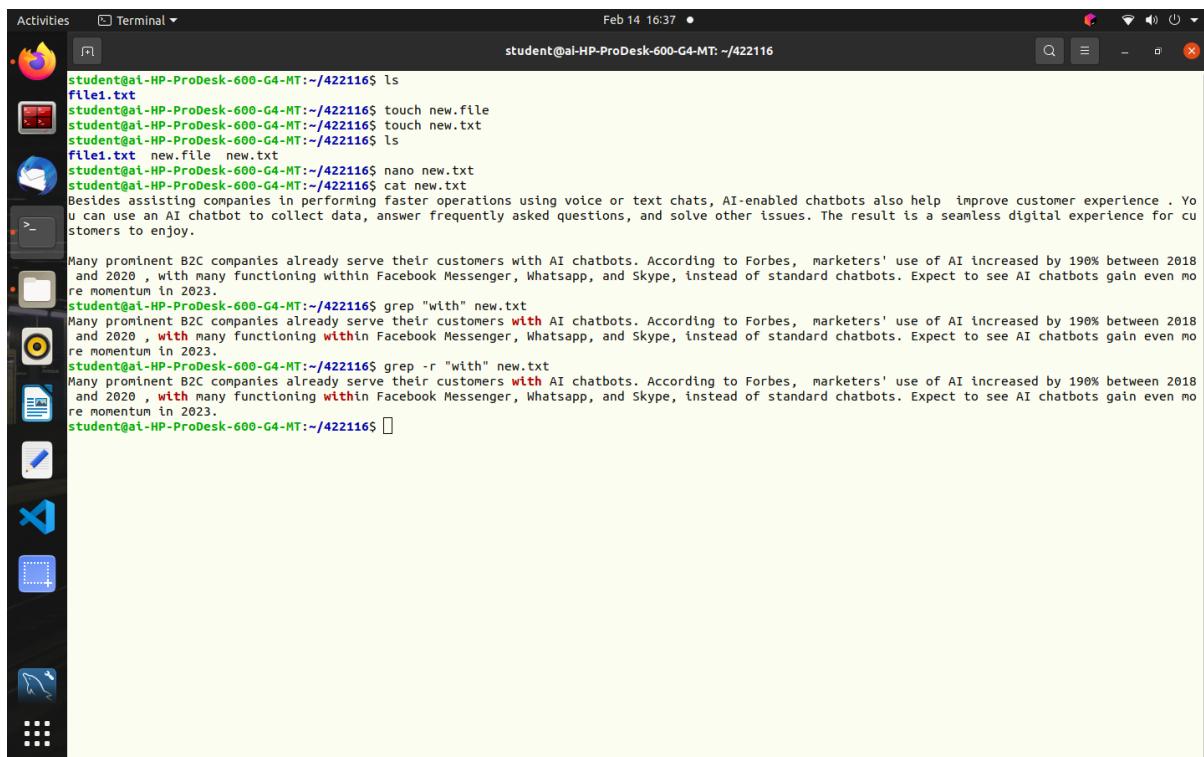
## ASSINGMENT – 01

NAME: B.Tharun Reddy

ROLL NO : 422116

SECTION-A

(week3) :Write shell script for searching for various patterns using grep, pr, head, tail, cut, paste, sort, uniq, and tr.



The screenshot shows a Linux desktop environment with a terminal window open. The terminal window title is "Terminal" and the status bar shows the date and time as "Feb 14 16:37". The terminal content is as follows:

```
student@ai-HP-ProDesk-600-G4-MT:~/422116$ ls
file1.txt
student@ai-HP-ProDesk-600-G4-MT:~/422116$ touch new.file
student@ai-HP-ProDesk-600-G4-MT:~/422116$ touch new.txt
student@ai-HP-ProDesk-600-G4-MT:~/422116$ ls
file1.txt  new.file  new.txt
student@ai-HP-ProDesk-600-G4-MT:~/422116$ nano new.txt
student@ai-HP-ProDesk-600-G4-MT:~/422116$ cat new.txt
Besides assisting companies in performing faster operations using voice or text chats, AI-enabled chatbots also help improve customer experience . You can use an AI chatbot to collect data, answer frequently asked questions, and solve other issues. The result is a seamless digital experience for customers to enjoy.

Many prominent B2C companies already serve their customers with AI chatbots. According to Forbes, marketers' use of AI increased by 190% between 2018 and 2020 , with many functioning within Facebook Messenger, Whatsapp, and Skype, instead of standard chatbots. Expect to see AI chatbots gain even more momentum in 2023.
student@ai-HP-ProDesk-600-G4-MT:~/422116$ grep "with" new.txt
Many prominent B2C companies already serve their customers with AI chatbots. According to Forbes, marketers' use of AI increased by 190% between 2018 and 2020 , with many functioning within Facebook Messenger, Whatsapp, and Skype, instead of standard chatbots. Expect to see AI chatbots gain even more momentum in 2023.
student@ai-HP-ProDesk-600-G4-MT:~/422116$ grep -r "with" new.txt
Many prominent B2C companies already serve their customers with AI chatbots. According to Forbes, marketers' use of AI increased by 190% between 2018 and 2020 , with many functioning within Facebook Messenger, Whatsapp, and Skype, instead of standard chatbots. Expect to see AI chatbots gain even more momentum in 2023.
student@ai-HP-ProDesk-600-G4-MT:~/422116$
```

```
Activities Terminal Feb 14 16:40 ● student@ai-HP-ProDesk-600-G4-MT: ~/422116
student@ai-HP-ProDesk-600-G4-MT:~/422116$ pr -l 15 new.txt
2024-02-14 16:36 new.txt Page 1
Besides assisting companies in performing faster operations using voice or text chats, AI-enabled chatbots also help improve customer experience . You can use an AI chatbot to collect data, answer frequently asked questions, and solve other issues. The result is a seamless digital experience for customers to enjoy.
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student@ai-HP-ProDesk-600-G4-MT:~/422116$ pr -h "WEBDEV trends part" new.txt
2024-02-14 16:36 WEBDEV trends part Page 1
Besides assisting companies in performing faster operations using voice or text chats, AI-enabled chatbots also help improve customer experience . You can use an AI chatbot to collect data, answer frequently asked questions, and solve other issues. The result is a seamless digital experience for customers to enjoy.
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```

```
Activities Terminal Feb 14 16:41 ● student@ai-HP-ProDesk-600-G4-MT: ~/422116
student@ai-HP-ProDesk-600-G4-MT:~/422116$ head new.txt
Besides assisting companies in performing faster operations using voice or text chats, AI-enabled chatbots also help improve customer experience . You can use an AI chatbot to collect data, answer frequently asked questions, and solve other issues. The result is a seamless digital experience for customers to enjoy.
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student@ai-HP-ProDesk-600-G4-MT:~/422116$ head -n 10 new.txt
Besides assisting companies in performing faster operations using voice or text chats, AI-enabled chatbots also help improve customer experience . You can use an AI chatbot to collect data, answer frequently asked questions, and solve other issues. The result is a seamless digital experience for customers to enjoy.
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student@ai-HP-ProDesk-600-G4-MT:~/422116$ head -n 2 new.txt
Besides assisting companies in performing faster operations using voice or text chats, AI-enabled chatbots also help improve customer experience . You can use an AI chatbot to collect data, answer frequently asked questions, and solve other issues. The result is a seamless digital experience for customers to enjoy.
student@ai-HP-ProDesk-600-G4-MT:~/422116$ head -n -1 new.txt
Besides assisting companies in performing faster operations using voice or text chats, AI-enabled chatbots also help improve customer experience . You can use an AI chatbot to collect data, answer frequently asked questions, and solve other issues. The result is a seamless digital experience for customers to enjoy.
student@ai-HP-ProDesk-600-G4-MT:~/422116$
```

```
Activities Terminal Feb 14 16:42 ● student@al-HP-ProDesk-600-G4-MT: ~/422116
student@al-HP-ProDesk-600-G4-MT:~/422116$ head new.txt
Besides assisting companies in performing faster operations using voice or text chats, AI-enabled chatbots also help improve customer experience . You can use an AI chatbot to collect data, answer frequently asked questions, and solve other issues. The result is a seamless digital experience for customers to enjoy.

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student@al-HP-ProDesk-600-G4-MT:~/422116$ tail new.txt
Besides assisting companies in performing faster operations using voice or text chats, AI-enabled chatbots also help improve customer experience . You can use an AI chatbot to collect data, answer frequently asked questions, and solve other issues. The result is a seamless digital experience for customers to enjoy.

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Activities Terminal Feb 14 16:46 ● student@al-HP-ProDesk-600-G4-MT: ~/422116
student@al-HP-ProDesk-600-G4-MT:~/422116$ nano names.txt
student@al-HP-ProDesk-600-G4-MT:~/422116$ cat number.txt
1
2
3
4
5
student@al-HP-ProDesk-600-G4-MT:~/422116$ cat names.txt
tharun
harsha
sridhar
mohan
bruhath

student@al-HP-ProDesk-600-G4-MT:~/422116$ paste number.txt names.txt
1 tharun
2 harsha
3 sridhar
4 mohan
5 bruhath

student@al-HP-ProDesk-600-G4-MT:~/422116$ head -n 2 names.txt
tharun
harsha
student@al-HP-ProDesk-600-G4-MT:~/422116$ tail -n 2 names.txt
bruhath

student@al-HP-ProDesk-600-G4-MT:~/422116$ cd ..
student@al-HP-ProDesk-600-G4-MT:~/422116$ cut -c 14 new.txt
t
t
o
c
student@al-HP-ProDesk-600-G4-MT:~/422116$ cut -c 20 new.txt
Besides assisting co

Many prominent B2C c
student@al-HP-ProDesk-600-G4-MT:~/422116$ cut -c 1-20 new.txt
Besides assisting co

Many prominent B2C c
student@al-HP-ProDesk-600-G4-MT:~/422116$
```

Activities Terminal Feb 14 16:47 ● student@ai-HP-ProDesk-600-G4-MT: ~/422116

```
sridhar
mohan
bruhath

student@ai-HP-ProDesk-600-G4-MT:~/422116/assignmnetfiles$ paste number.txt names.txt
1      tharun
2      harsha
3      sridhar
4      mohan
5      bruhath

student@ai-HP-ProDesk-600-G4-MT:~/422116/assignmnetfiles$ head -n 2 names.txt
tharun
harsha
student@ai-HP-ProDesk-600-G4-MT:~/422116/assignmnetfiles$ tail -n 2 names.txt
bruhath

student@ai-HP-ProDesk-600-G4-MT:~/422116/assignmnetfiles$ cd ..
student@ai-HP-ProDesk-600-G4-MT:~/422116$ cut -c 14 new.txt
t

t
student@ai-HP-ProDesk-600-G4-MT:~/422116$ cut -c 20 new.txt
o

c
student@ai-HP-ProDesk-600-G4-MT:~/422116$ cut -c -20 new.txt
Besides assisting co

Many prominent B2C c
student@ai-HP-ProDesk-600-G4-MT:~/422116$ cut -c 1-20 new.txt
Besides assisting co

Many prominent B2C c
student@ai-HP-ProDesk-600-G4-MT:~/422116$ cut -c 1-20- new.txt
cut: invalid byte or character range
Try 'cut --help' for more information.
student@ai-HP-ProDesk-600-G4-MT:~/422116$ cut -c 20- new.txt
Companies in performing faster operations using voice or text chats, AI-enabled chatbots also help improve customer experience . You can use an AI chatbot to collect data, answer frequently asked questions, and solve other issues. The result is a seamless digital experience for customers to enjoy.

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.
student@ai-HP-ProDesk-600-G4-MT:~/422116$
```

Activities Terminal Feb 14 16:48 ● student@ai-HP-ProDesk-600-G4-MT: ~/422116

```
student@ai-HP-ProDesk-600-G4-MT:~/422116$ cut -c 1-20 new.txt
Besides assisting co

Many prominent B2C c
student@ai-HP-ProDesk-600-G4-MT:~/422116$ cut -c 1-20- new.txt
cut: invalid byte or character range
Try 'cut --help' for more information.
student@ai-HP-ProDesk-600-G4-MT:~/422116$ cut -c 20- new.txt
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.
student@ai-HP-ProDesk-600-G4-MT:~/422116$ nano new2.txt
student@ai-HP-ProDesk-600-G4-MT:~/422116$ cat new2.txt
Considered one of the most significant recent trends in web development, single-page applications (SPAs) are JavaScript-based web applications that load a single HTML page in a visitor's browser and dynamically update content as needed without refreshing the page.

The development community and Google, Facebook, and Twitter have widely adopted SPAs. Because users can use a website without loading an entirely new page from the server, the overall performance is much better. While more effort is involved in maintaining SPAs, it could be well worth the tradeoff.

Besides being cost-effective and relatively easy to create thanks to the popular AngularJS framework , SPAs consume less server space and efficiently provide users' information on a single page without needing to navigate around. These benefits make SPAs a win-win for developers and site visitors alike.

As online consumers expect faster and simpler app experiences, we can expect the SPA trend to continue in the coming year.
student@ai-HP-ProDesk-600-G4-MT:~/422116$ paste new.txt new2.txt
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As online consumers expect faster and simpler app experiences, we can expect the SPA trend to continue in the coming year.
student@ai-HP-ProDesk-600-G4-MT:~/422116$
```

Activities Terminal Feb 14 16:50 ● student@al-HP-ProDesk-600-G4-MT: ~/422116

```
student@al-HP-ProDesk-600-G4-MT:~/422116
re momentum in 2023. The development community and Google, Facebook, and Twitter have widely adopted SPAs. Because users can use a website without loading an entirely new page from the server, the overall performance is much better. While more effort is involved in maintaining SPAs, it could be well worth the tradeoff.

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student@al-HP-ProDesk-600-G4-MT:~/422116 cd assignmnetfiles/
student@al-HP-ProDesk-600-G4-MT:~/422116/assignmnetfiles$ paste -d "\n" number.txt names.txt
>
> ^C
student@al-HP-ProDesk-600-G4-MT:~/422116/assignmnetfiles$ sort new2.txt
sort: cannot read: new2.txt: No such file or directory
student@al-HP-ProDesk-600-G4-MT:~/422116/assignmnetfiles$ cd ..
student@al-HP-ProDesk-600-G4-MT:~/422116$ sort new2.txt

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student@al-HP-ProDesk-600-G4-MT:~/422116$ sort -r new.txt

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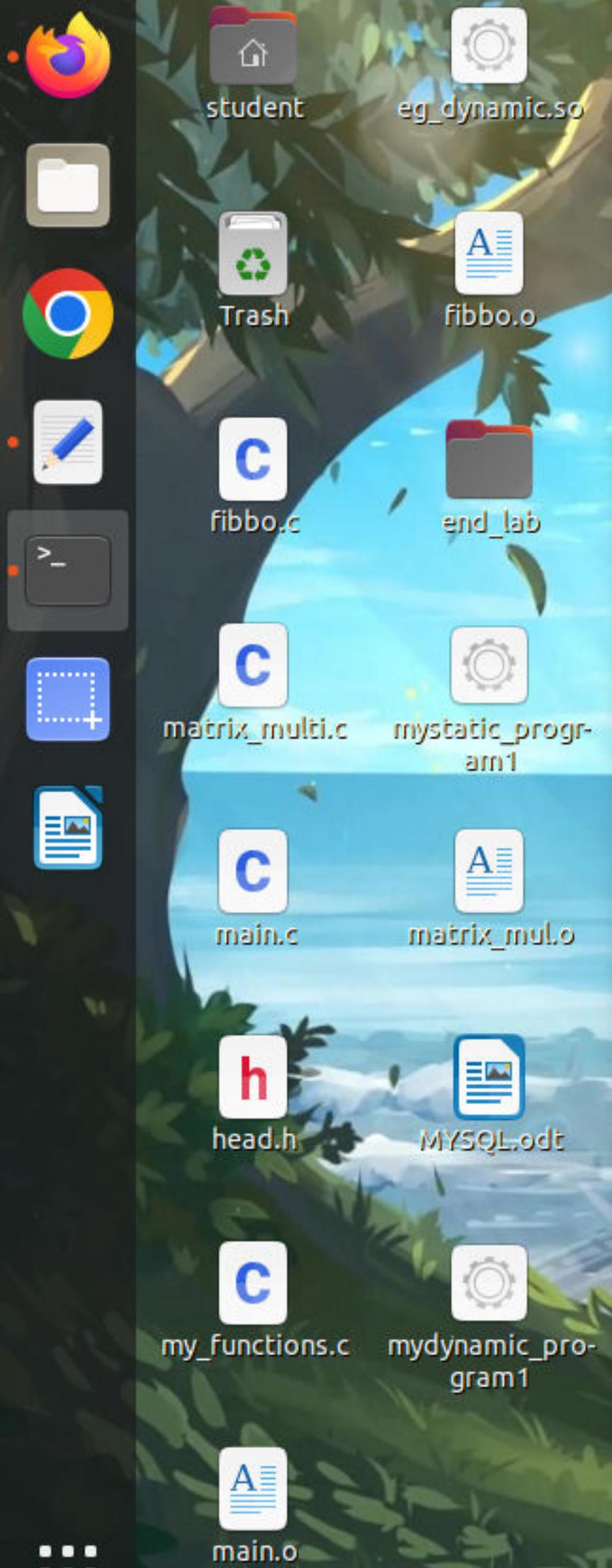
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student@al-HP-ProDesk-600-G4-MT:~/422116
```

```
student@ai-HP-ProDesk-600-G4-MT: ~/Desktop files/422116 do not delete this/shellscrpiting/week3
student@ai-HP-ProDesk-600-G4-MT: ~/Desktop files/422116 do not delete this/shellscrpiting/week3$ ls
student@ai-HP-ProDesk-600-G4-MT: ~/Desktop files/422116 do not delete this/shellscrpiting/week3$ touch file1.txt
file1.txt
student@ai-HP-ProDesk-600-G4-MT: ~/Desktop files/422116 do not delete this/shellscrpiting/week3$ nano example.txt
student@ai-HP-ProDesk-600-G4-MT: ~/Desktop files/422116 do not delete this/shellscrpiting/week3$ cat example.txt
#!/bin/bash
pattern="tht"
file="example.txt"
awk '/$pattern/{print}' "$file"
sed -n '/$pattern/p' "$file"
tar -cvf ad.tar "$file"
cpio -o -H newc -F archive.cpio
student@ai-HP-ProDesk-600-G4-MT: ~/Desktop files/422116 do not delete this/shellscrpiting/week3$ nano example2.txt
student@ai-HP-ProDesk-600-G4-MT: ~/Desktop files/422116 do not delete this/shellscrpiting/week3$ nano test.sh
student@ai-HP-ProDesk-600-G4-MT: ~/Desktop files/422116 do not delete this/shellscrpiting/week3$ cat test.sh
#!/bin/bash
pattern="tht"
file="example2.txt"
awk '/$pattern/{print}' "$file"
sed -n '/$pattern/p' "$file"
tar -cvf ad.tar "$file"
cpio -o -H newc -F archive.cpio
student@ai-HP-ProDesk-600-G4-MT: ~/Desktop files/422116 do not delete this/shellscrpiting/week3$ ls
example2.txt example.txt file1.txt test.sh
student@ai-HP-ProDesk-600-G4-MT: ~/Desktop files/422116 do not delete this/shellscrpiting/week3$ rm example.txt
student@ai-HP-ProDesk-600-G4-MT: ~/Desktop files/422116 do not delete this/shellscrpiting/week3$ ls
example2.txt file1.txt test.sh
student@ai-HP-ProDesk-600-G4-MT: ~/Desktop files/422116 do not delete this/shellscrpiting/week3$ ./test.sh
bash: ./test.sh: Permission denied
student@ai-HP-ProDesk-600-G4-MT: ~/Desktop files/422116 do not delete this/shellscrpiting/week3$ bash test.sh
that is that tht is something which we need to know
if you know whats tht is then tell me tht is
that is that tht is something which we need to know
if you know whats tht is then tell me tht is
example2.txt
```





```
student@da-HP-ProDesk-600-G4-MT: ~/Desktop
0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, 144, 233, 377, 610, 987, 1597, 2584,
Resultant matrix after multiplication:
19 22
43 50
student@da-HP-ProDesk-600-G4-MT:~/Desktop$ gcc *.o -shared -o eg_dynamic.so
student@da-HP-ProDesk-600-G4-MT:~/Desktop$ ls
422213      end_lab fibbo.o main.c matrix_mul.o  my_functions.c mystatic_program1
eg_dynamic.so fibbo.c head.h main.o matrix_multi.c MYSQL.odt
student@da-HP-ProDesk-600-G4-MT:~/Desktop$ gcc -o mydynamic_program1 main.o -L. eg_dynamic.so
student@da-HP-ProDesk-600-G4-MT:~/Desktop$ ./mydynamic_program1
./mydynamic_program1: error while loading shared libraries: eg_dynamic.so: cannot open shared object file: No such file or
ctory
student@da-HP-ProDesk-600-G4-MT:~/Desktop$ sudo cp eg_dynamic.so /usr/lib
[sudo] password for student:
student@da-HP-ProDesk-600-G4-MT:~/Desktop$ ./mydynamic_program1
Enter the number of terms for Fibonacci series: 19
Fibonacci series up to 19 terms:
0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, 144, 233, 377, 610, 987, 1597, 2584,
Resultant matrix after multiplication:
19 22
43 50
student@da-HP-ProDesk-600-G4-MT:~/Desktop$ ./mydynamic_program1
Enter the number of terms for Fibonacci series: 23
Fibonacci series up to 23 terms:
0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, 144, 233, 377, 610, 987, 1597, 2584, 4181, 6765, 10946, 17711,
Resultant matrix after multiplication:
19 22
43 50
student@da-HP-ProDesk-600-G4-MT:~/Desktop$ ls
422213      end_lab fibbo.o main.c matrix_mul.o  mydynamic_program1 MYSQL.odt
eg_dynamic.so fibbo.c head.h main.o matrix_multi.c my_functions.c mystatic_program1
student@da-HP-ProDesk-600-G4-MT:~/Desktop$ ./mydynamic_program1
Enter the number of terms for Fibonacci series: 7
Fibonacci series up to 7 terms:
0, 1, 1, 2, 3, 5, 8,
Resultant matrix after multiplication:
19 22
43 50
student@da-HP-ProDesk-600-G4-MT:~/Desktop$
```

```
(gdb) next  
19          prev = temp;  
(gdb) next  
20          temp = temp->next;  
(gdb) next
```

```
Breakpoint 1, deleteNode (head=0x7fffffffda0, key=6) at linkedlist.c:18  
18      while (temp->data != key) {  
(gdb) continue  
Continuing.
```

```
Breakpoint 1, deleteNode (head=0x7fffffffda0, key=6) at linkedlist.c:18  
18      while (temp->data != key) {  
(gdb) continue  
Continuing.
```

```
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18      while (temp->data != key) {  
(gdb) continue  
Continuing.
```

```
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18      while (temp->data != key) {  
(gdb) continue  
Continuing.
```

```
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18      while (temp->data != key) {  
(gdb) continue  
Continuing.
```

```
Program received signal SIGSEGV, Segmentation fault.  
0x00005555555520e in deleteNode (head=0x7fffffffda0, key=6)  
  at linkedlist.c:18  
18      while (temp->data != key) {  
(gdb) continue  
Continuing.
```

```
Program terminated with signal SIGSEGV, Segmentation fault.  
The program no longer exists.  
(gdb) continue  
The program is not being run.  
(gdb) continue  
The program is not being run.  
(gdb) █
```

```
Program received signal SIGSEGV, Segmentation fault.
0x00005555555520e in deleteNode (head=0x7fffffffda0, key=6)
  at linkedlist.c:18
18          while (temp->data != key) {
(gdb) list
13          if (temp != NULL && temp->data == key) {
14              *head = temp->next;
15              free(temp);
16              return;
17          }
18          while (temp->data != key) {
19              prev = temp;
20              temp = temp->next;
21          }
22          if (temp == NULL)
(gdb) break 18
Breakpoint 1 at 0x555555555520a: file linkedlist.c, line 18.
(gdb) break 17
Note: breakpoint 1 also set at pc 0x555555555520a.
Breakpoint 2 at 0x555555555520a: file linkedlist.c, line 18.
(gdb) break 18
Note: breakpoints 1 and 2 also set at pc 0x555555555520a.
Breakpoint 3 at 0x555555555520a: file linkedlist.c, line 18.
(gdb) break 22
Breakpoint 4 at 0x5555555555215: file linkedlist.c, line 22.
(gdb) run
The program being debugged has been started already.
Start it from the beginning? (y or n) n
Program not restarted.
(gdb) run
The program being debugged has been started already.
Start it from the beginning? (y or n) y
Starting program: /home/student/Desktop/example_gdb

Breakpoint 1, deleteNode (head=0x7fffffffda0, key=6) at linkedlist.c:18
18          while (temp->data != key) {
(gdb) next
19          prev = temp;
(gdb) next
20          temp = temp->next;
(gdb) next

Breakpoint 1, deleteNode (head=0x7fffffffda0, key=6) at linkedlist.c:18
18          while (temp->data != key) {
(gdb) continue
Continuing.
```

```
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ ls
422157          Q2_sender.class
622136          Q2_sender.java
622225          'Screenshot from 2024-03-13 16-26-19.png'
a.out           'Screenshot from 2024-03-13 16-26-45.png'
bin             'Screenshot from 2024-03-13 16-27-19.png'
ClientChat.class 'Screenshot from 2024-03-13 16-27-32.png'
ClientChat.java   Serverchat.class
gbd.sh           Serverchat.java
linkedlist.c      Sliding.class
linkedlist.s      Sliding.java
output            Sliding_reciver.class
Q2_client.class   Sliding_reciver.java
Q2_client.java    unix-lab
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ gcc -g -o example_gdb linkedlist.c
(base) student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ gdb example_gdb
GNU gdb (Ubuntu 9.2-0ubuntu1~20.04.1) 9.2
Copyright (C) 2020 Free Software Foundation, Inc.
License GPLv3+: GNU GPL version 3 or later <http://gnu.org/licenses/gpl.html>
This is free software: you are free to change and redistribute it.
There is NO WARRANTY, to the extent permitted by law.
Type "show copying" and "show warranty" for details.
This GDB was configured as "x86_64-linux-gnu".
Type "show configuration" for configuration details.
For bug reporting instructions, please see:
<http://www.gnu.org/software/gdb/bugs/>.
Find the GDB manual and other documentation resources online at:
  <http://www.gnu.org/software/gdb/documentation/>.

For help, type "help".
Type "apropos word" to search for commands related to "word"...
Reading symbols from example_gdb...
(gdb) run
Starting program: /home/student/Desktop/example_gdb

Program received signal SIGSEGV, Segmentation fault.
0x00005555555520e in deleteNode (head=0x7fffffffdfa0, key=6)
  at linkedlist.c:18
18          while (temp->data != key) {
(gdb) list
13          if (temp != NULL && temp->data == key) {
14              *head = temp->next;
15              free(temp);
16              return;
17          }
18          while (temp->data != key) {
```

# **assigmnet-5**

## **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/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 .

Attached a pdf for the 1st one done with sridhar as 2nd machine  
for the 2nd part of assignmnet here is the github repo link---[github](#)  
<https://github.com/THARUN7474/SHELL-SCRIPTING-LAB-422116.git>

Activities Image Viewer

Mar 20 15:13

— ☰ ×

81% Screenshot from 2024-03-20 15-04-37.png

Activities Terminal Mar 20 15:04 student@ai-HP-ProDesk-600-G4-MT: ~

```
Welcome to Ubuntu 23.04 (GNU/Linux 6.2.0-39-generic x86_64)

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

0 updates can be applied immediately.

Your Ubuntu release is not supported anymore.
For upgrade information, please visit:
http://www.ubuntu.com/releaseendoflife

New release '23.10' available.
Run 'do-release-upgrade' to upgrade to it.

Last login: Wed Mar 20 14:43:56 2024 from 172.50.11.84
sridhar@sridhar-VirtualBox:~$ cd
sridhar@sridhar-VirtualBox:~$ d
d: command not found
sridhar@sridhar-VirtualBox:~$ cd
sridhar@sridhar-VirtualBox:~$ ls
Desktop Documents Downloads Music Pictures Public snap Templates Videos
sridhar@sridhar-VirtualBox:~$ Desktop/
-bash: Desktop/: Is a directory
sridhar@sridhar-VirtualBox:~$ cd Desktop/
sridhar@sridhar-VirtualBox:~/Desktop$ ^C
sridhar@sridhar-VirtualBox:~/Desktop$ logout
Connection to 172.50.10.27 closed.
student@ai-HP-ProDesk-600-G4-MT:~$ ls
1a      capital    Downloads      lab          Pictures      Templates      wekafiles
3a      combine    eclipse       LP-Lab        prgl        'union and intersect.sql'
421154   Desktop   eclipse-work metasploit-latest-linux-x64-installer.run  Public        unix
422165.sql  dfsgd.py  eclipse-workspace metasploit.sh      __pycache__  unixgit
4ae.py   'do 3.py'  ex.py       'mid exam 1st que.py'  r.py         Untitled.ipynb
anaconda3  Documents  file1.txt  msfinstall      snap        Videos
batch.txt  do.py     join.sql    Music          state      week4.sql
student@ai-HP-ProDesk-600-G4-MT:~$ scp week4.sql ^C
student@ai-HP-ProDesk-600-G4-MT:~$ scp week4.sql 172.50.10.27
student@ai-HP-ProDesk-600-G4-MT:~$ scp week4.sql 172.50.10.27
student@ai-HP-ProDesk-600-G4-MT:~$ scp week4.sql 172.50.10.27
student@ai-HP-ProDesk-600-G4-MT:~$ scp week4.sql sridhar@172.50.10.27
student@ai-HP-ProDesk-600-G4-MT:~$ scp week4.sql sridhar@172.50.10.27:~
sridhar@172.50.10.27's password:
week4.sql
student@ai-HP-ProDesk-600-G4-MT:~$
```

100% 802 0.9KB/s 00:00



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sridhar@sridhar-VirtualBox: ~



```
sridhar@sridhar-VirtualBox:~$ ls
Desktop   Downloads  Pictures  snap      Videos
Documents  Music     Public    Templates week4.sql
sridhar@sridhar-VirtualBox:~$ cat week4.sql
use worksheet1;
CREATE TABLE voters(voterid int8,name varchar(20),age int2,mobile int8,city varchar(20),adharno int8);
CREATE TABLE citizens(adharno int8,name varchar(20),address varchar(20));
ALTER TABLE voters ADD PRIMARY KEY (voterid);
ALTER TABLE citizens ADD PRIMARY KEY(adharno);
ALTER TABLE voters ADD CHECK (age>=18);
ALTER TABLE voters ADD CHECK (length(mobile)=10);
ALTER TABLE citizens ADD CHECK (length(adharno)=12);
ALTER TABLE citizens ADD UNIQUE (address);
ALTER TABLE voters ADD foreign key (city) REFERENCES citizens(address);
ALTER TABLE voters MODIFY name  varchar(20) NOT NULL;
ALTER TABLE voters ADD UNIQUE (adharno);
ALTER TABLE citizens ADD UNIQUE (adharno);
ALTER TABLE voters ADD FOREIGN KEY(adharno) references citizens(adharno);
ALTER TABLE voters ALTER age SET DEFAULT 18;
```

```
sridhar@sridhar-VirtualBox:~$ open week4.sql
```

```
sridhar@sridhar-VirtualBox:~$ ip a
```

```
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
        inet 127.0.0.1/8 scope host lo
            valid_lft forever preferred_lft forever
        inet6 ::1/128 scope host
            valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
    link/ether 08:00:27:ed:02:27 brd ff:ff:ff:ff:ff:ff
        inet 172.50.10.27/20 brd 172.50.15.255 scope global dynamic noprefixroute enp0s3
            valid_lft 11003sec preferred_lft 11003sec
        inet6 fe80::4a9:e0c:7904:718b/64 scope link noprefixroute
            valid_lft forever preferred_lft forever
```

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

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Rules updated (v6)



```
sridhar@sridhar-VirtualBox:~$ sudo ufw reload  
Firewall not enabled (skipping reload)  
sridhar@sridhar-VirtualBox:~$ sudo ufw allow 22/tcp
```



```
Skiping adding existing rule  
Skiping adding existing rule (v6)
```



```
sridhar@sridhar-VirtualBox:~$ ssh student@172.50.11.69  
The authenticity of host '172.50.11.69 (172.50.11.69)' can't be established.
```



```
ED25519 key fingerprint is SHA256:UE03EP20xdvRJUtEwmkxXIM7eFOLB6x5vQK2ok5dXs8.
```

```
This key is not known by any other names
```

```
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
```

```
Warning: Permanently added '172.50.11.69' (ED25519) to the list of known hosts.
```



```
student@172.50.11.69's password:
```

```
Welcome to Ubuntu 20.04.4 LTS (GNU/Linux 5.13.0-40-generic x86_64)
```



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



```
1 device has a firmware upgrade available.
```

```
Run `fwupdmgr get-upgrades` for more information.
```



```
564 updates can be applied immediately.
```

```
453 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.
```



```
2 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 15:21:05 2024 from 127.0.0.1
```



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Run 'do-release-upgrade' to upgrade to it.



2 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 15:31:05 2024 from 127.0.0.1



student@ai-HP-ProDesk-600-G4-MT:~\$ ls



172.50.10.27	'do 3.py'	metasploit-latest-linux-x64-installer.run	state
1a	Documents	metasploit.sh	Templates
3a	do.py	'mid exam 1st que.py'	'union and intersect.sql'
421154	Downloads	msfinstall	unix
422165.sql	eclipse	Music	unixgit
4ae.py	eclipse-work	Pictures	Untitled.ipynb
anaconda3	eclipse-workspace	prgl	Videos
batch.txt	ex.py	Public	week4.sql
capital	file1.txt	__pycache__	wekafiles
combine	join.sql	r.py	worksheet3.sql
Desktop	lab	snap	
dfsdg.py	LP-Lab	sridhar@172.50.10.27	



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



-bash: Desktop/: Is a directory



student@ai-HP-ProDesk-600-G4-MT:~\$ cd Desktop/



student@ai-HP-ProDesk-600-G4-MT:~/Desktop\$ ls

1.png	422165	622128	622222	'bst 3.py'	crc.py	scripts	tree.py
421110	422213	622163	'bst 2.py'	'bs t.py'	double.py	test	



student@ai-HP-ProDesk-600-G4-MT:~/Desktop\$ cd 422165



student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422165\$ ls

lab1.sql	LAB2	LAB4	student.sql	teacher.sql	WEEK3Q1.sql
----------	------	------	-------------	-------------	-------------



student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422165\$ cd



student@ai-HP-ProDesk-600-G4-MT:~\$ cd Desktop/



student@ai-HP-ProDesk-600-G4-MT:~/Desktop\$ ls

1.png	422165	622128	622222	'bst 3.py'	crc.py	scripts	tree.py
421110	422213	622163	'bst 2.py'	'bs t.py'	double.py	test	





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



```
student@ai-HP-ProDesk-600-G4-MT:~$ cd Desktop/  
student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ ls  
1.png 422165 622128 622222 'bst 3.py' crc.py scripts tree.py  
421110 422213 622163 'bst 2.py' 'bs t.py' double.py test  
student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ cd 422165  
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422165$ ls  
lab1.sql LAB2 LAB4 student.sql teacher.sql WEEK3Q1.sql  
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422165$ cd  
student@ai-HP-ProDesk-600-G4-MT:~$ cd Desktop/  
student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ ls  
1.png 422165 622128 622222 'bst 3.py' crc.py scripts tree.py  
421110 422213 622163 'bst 2.py' 'bs t.py' double.py test  
student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ python crc.py
```

Command 'python' not found, did you mean:

```
command 'python3' from deb python3  
command 'python' from deb python-is-python3
```

```
student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ python3 crc.py  
message 10010001101001  
Remainder : 111  
Encoded Data 10010001101001111
```

```
msg received 10010001101001111  
and remainder is 000  
so correct msg received  
student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ python3 tree.py  
inorder transvel
```

```
4->2->5->1->3->preorder transvel  
1 ->2 ->4 ->5 ->3 ->postorder transvel  
4->5->2->3->1->  
student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ python3 double.py  
Doubly Linked List (Forward):  
1 -> 2 -> 3 -> 4 -> 5 -> None
```



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student@sridhar-VirtualBox:~\$ ssh student@172.50.11.84

student@172.50.11.84's password:

Welcome to Ubuntu 20.04.4 LTS (GNU/Linux 5.8.0-59-generic x86\_64)

- \* Documentation: <https://help.ubuntu.com>
- \* Management: <https://landscape.canonical.com>
- \* Support: <https://ubuntu.com/advantage>

559 updates can be applied immediately.

461 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.

Your Hardware Enablement Stack (HWE) is supported until April 2025.

Last login: Wed Mar 20 16:05:19 2024 from 172.50.10.27

student@ai-HP-ProDesk-600-G4-MT:~\$ ls

1.py	fib.a68g	nqueen.c
411931	file1.txt	number
420153	file2.txt	Pictures
422163	file3.txt	Public
9212119	file4.txt	Q1.c
alphabet.a68g	Firefox_wallpaper.png	question1.py
anaconda3	hai.dir	randomimage
a.out	heapify.py	snap
a.sml	infix.c	state
bfs.py	lowercase.hs	Templates
bit_stuffing.class	LP	test1.a68
bit_stuffing.java	MandC.py	test2.a68
capital	MissionariesandCannibals.py	test3.a68
counter	mst.cpp	test4.a68
Show Apps	Music	test5.a68
directo	myproject	test6.a68
ds -----	...D-----	test_7.a68

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20-03-2024



student@ai-HP-ProDesk-600-G4-MT: ~/Desktop/422134



```
anaconda3          hai.dir           randomimage
a.out              heapify.py        snap
a.sml              infix.c          state
bfs.py             lowercase.hs    Templates
bit_stuffing.class LP               test1.a68
bit_stuffing.java MandC.py         test2.a68
capital            MissionariesandCannibals.py test3.a68
counter            mst.cpp          test4.a68
Desktop            Music             test5.a68
dhillu              myproject        test6.a68
direct              myProject        test.a68
Documents           NETWORKPROGRAMMINGLAB ttt.ipynb
Downloads           new               unix
eclipse             new2.py          Videos
eclipse-workspace   new.py          'webprogramming lab 620114'
factor.sml          'np lab'        wekafiles
```

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

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

```
422134  ARP_RARP.class
422163  ARP_RARP.java
422179  'Kousik Gate class'
422223  lab5.pdf
622101  NetworkNode.class
622160  number-plate-recognition-using-tensorflow-featured-image.jpeg
622252  Packet.class
```

```
student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ cd 422134/
```

```
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422134$ ls
```

```
a.out      fact3.c  factorial.sh  fibonacci.sh.sh  squares.sh
fact2.c    fact.c   fibonacci.sh  second.sh       'Untitled Document 1'
```

```
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422134$ gcc fact3.c
```

```
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422134$ ./a.out
```

```
Segmentation fault (core dumped)
```

```
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422134$ bash ^C
```

```
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422134$ █
```



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IN16:10  
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student@ai-HP-ProDesk-600-G4-MT: ~/Desktop/422134



```
sridhar@sridhar-VirtualBox:~$ ssh student@172.50.11.84  
student@172.50.11.84's password:  
Welcome to Ubuntu 20.04.4 LTS (GNU/Linux 5.8.0-59-generic x86_64)
```



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



```
559 updates can be applied immediately.  
461 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.
```



```
Your Hardware Enablement Stack (HWE) is supported until April 2025.  
Last login: Wed Mar 20 16:08:45 2024 from 172.50.10.27
```



```
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/  
student@ai-HP-ProDesk-600-G4-MT:~/Desktop$ cd 422134/  
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422134$ ls  
a.out      fact3.c    factorial.sh    fibonacci.sh.sh    squares.sh  
fact2.c    fact.c     fibonacci.sh    second.sh       'Untitled Document 1'  
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422134$ chmod +x fibonacci.sh
```



```
chmod: cannot access 'fibonacci.sh': No such file or directory
```



```
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422134$ chmod +x fibonacci.sh  
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422134$ bash fibonacci.sh
```

```
enter the value of n:5
```

```
the fibonacci series is:
```

```
01123
```



```
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422134$ chmod +x squares.sh
```



```
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422134$ bash squares.sh
```

```
enter the number:7
```

```
the sum of squares of 7 is: 140
```



```
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422134$
```

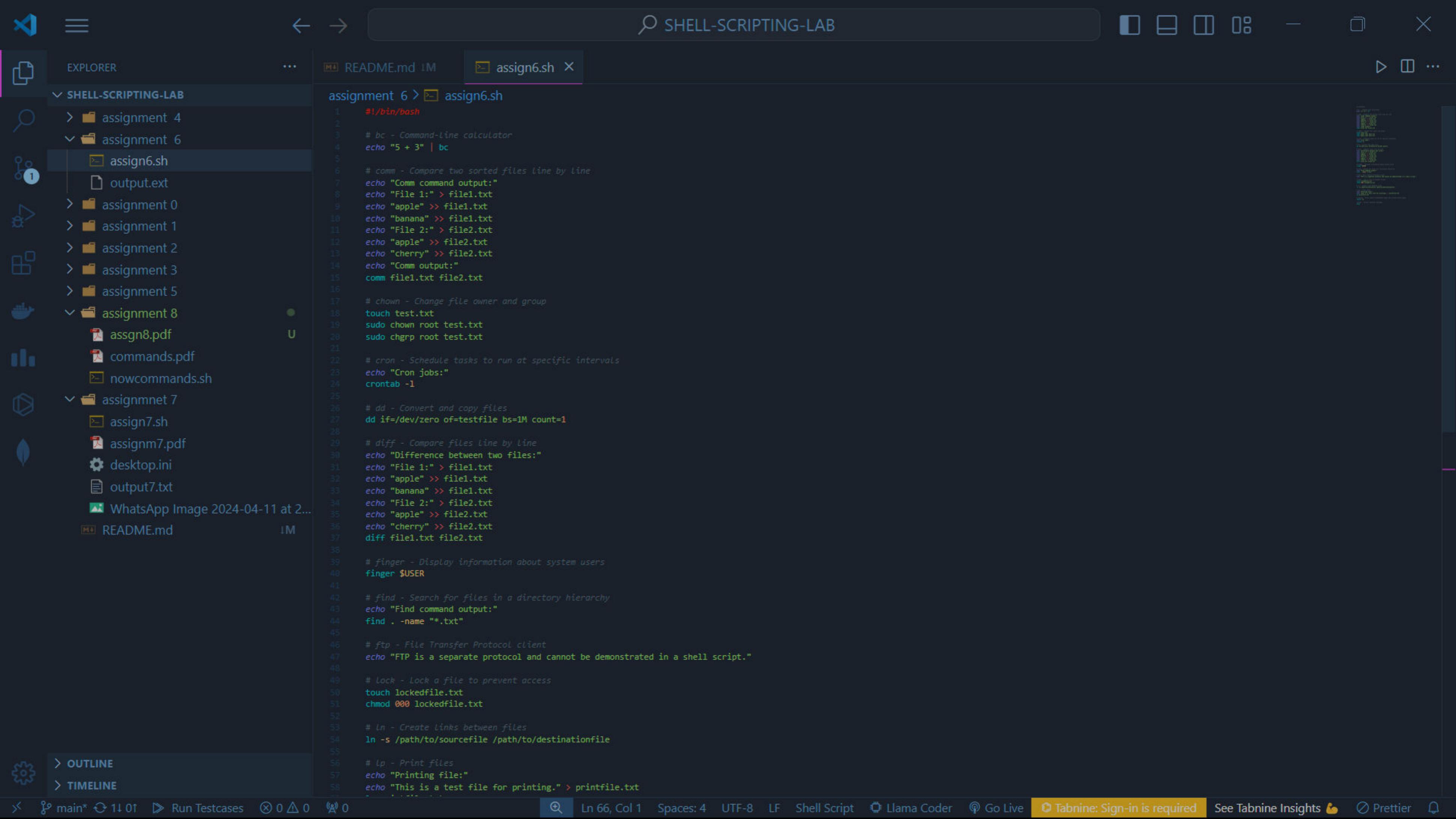


Search

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IN16:12  
20-03-2024

SHELL-SCRIPTING-LAB

```
assignment 6 > assign6.sh
1 #!/bin/bash
2
3 # bc - Command-line calculator
4 echo "5 + 3" | bc
5
6 # comm - Compare two sorted files line by line
7 echo "Comm command output:"
8 echo "File 1:" > file1.txt
9 echo "apple" >> file1.txt
10 echo "banana" >> file1.txt
11 echo "File 2:" > file2.txt
12 echo "apple" >> file2.txt
13 echo "cherry" >> file2.txt
14 echo "Comm output:"
15 comm file1.txt file2.txt
16
17 # chown - Change file owner and group
18 touch test.txt
19 sudo chown root test.txt
20 sudo chgrp root test.txt
21
22 # cron - Schedule tasks to run at specific intervals
23 echo "Cron jobs:"
24 crontab -l
25
26 # dd - Convert and copy files
27 dd if=/dev/zero of=testfile bs=1M count=1
28
29 # diff - Compare files line by line
30 echo "Difference between two files:"
31 echo "File 1:" > file1.txt
32 echo "apple" >> file1.txt
33 echo "banana" >> file1.txt
34 echo "File 2:" > file2.txt
35 echo "apple" >> file2.txt
36 echo "cherry" >> file2.txt
37 diff file1.txt file2.txt
38
39 # finger - Display information about system users
40 finger $USER
41
42 # find - Search for files in a directory hierarchy
43 echo "Find command output:"
44 find . -name "*.txt"
45
46 # ftp - File Transfer Protocol client
47 echo "FTP is a separate protocol and cannot be demonstrated in a shell script."
48
49 # Lock - Lock a file to prevent access
50 touch lockedfile.txt
51 chmod 000 lockedfile.txt
52
53 # Lln - Create links between files
54 ln -s /path/to/sourcefile /path/to/destinationfile
55
56 # Lp - Print files
57 echo "Printing file:"
58 echo "This is a test file for printing." > printfile.txt
```



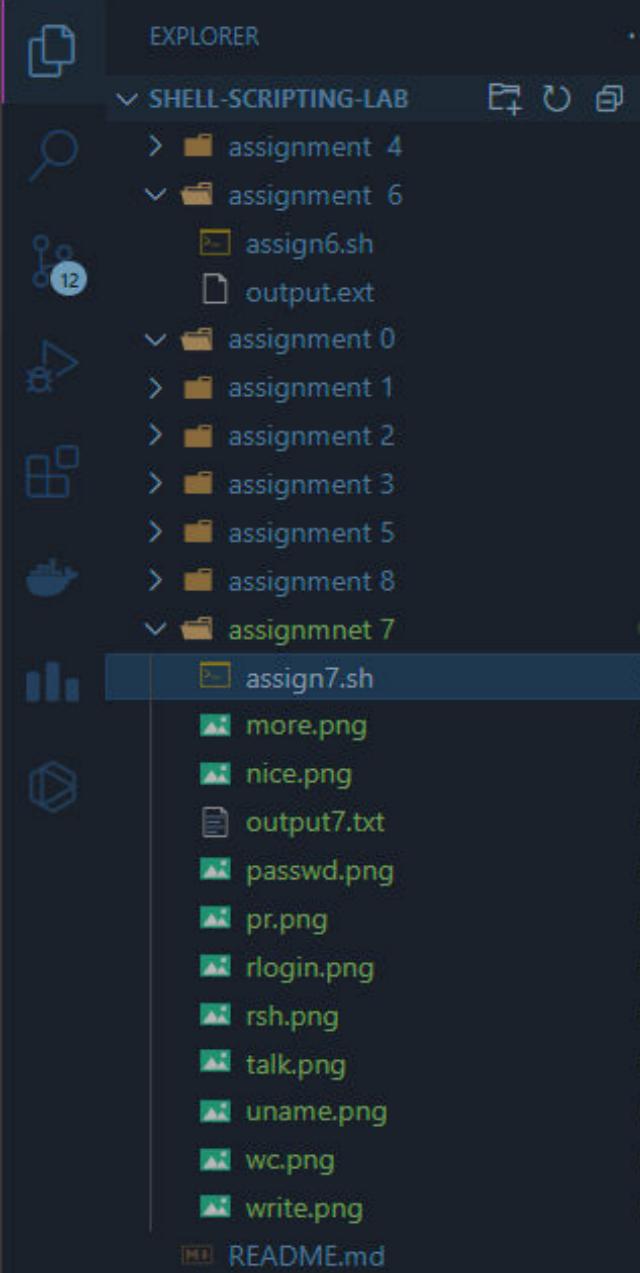
SHELL-SCRIPTING-LAB

```
Comm command output:  
Comm output:  
File 1:  
File 2:  
apple  
banana  
cherry  
Cron jobs:  
Difference between two files:  
1c1  
< File 1:  
---  
> File 2:  
3c3  
< banana  
---  
> cherry  
Login: naruto          Name: naruto  
Directory: /home/naruto      Shell: /usr/bin/zsh  
On since Fri Apr  5 11:03 (IST) on tty7 from :0  
    22 minutes 14 seconds idle  
No mail.  
No Plan.  
Find command output:  
. ./file1.txt  
. ./printfile.txt  
. ./vialearnfiles/copiedmark.txt  
. ./vialearnfiles/l1.txt  
. ./outputfile.txt  
. ./file2.txt  
. ./test.txt  
. ./lockedfile.txt  
. ./learn/b.txt  
FTP is a separate protocol and cannot be demonstrated in a shell script.  
Printing file:  
is n
```

SHELL-SCRIPTING-LAB

```
testingfile1.txt assign6.sh output.txt assign7.sh X output7.txt U

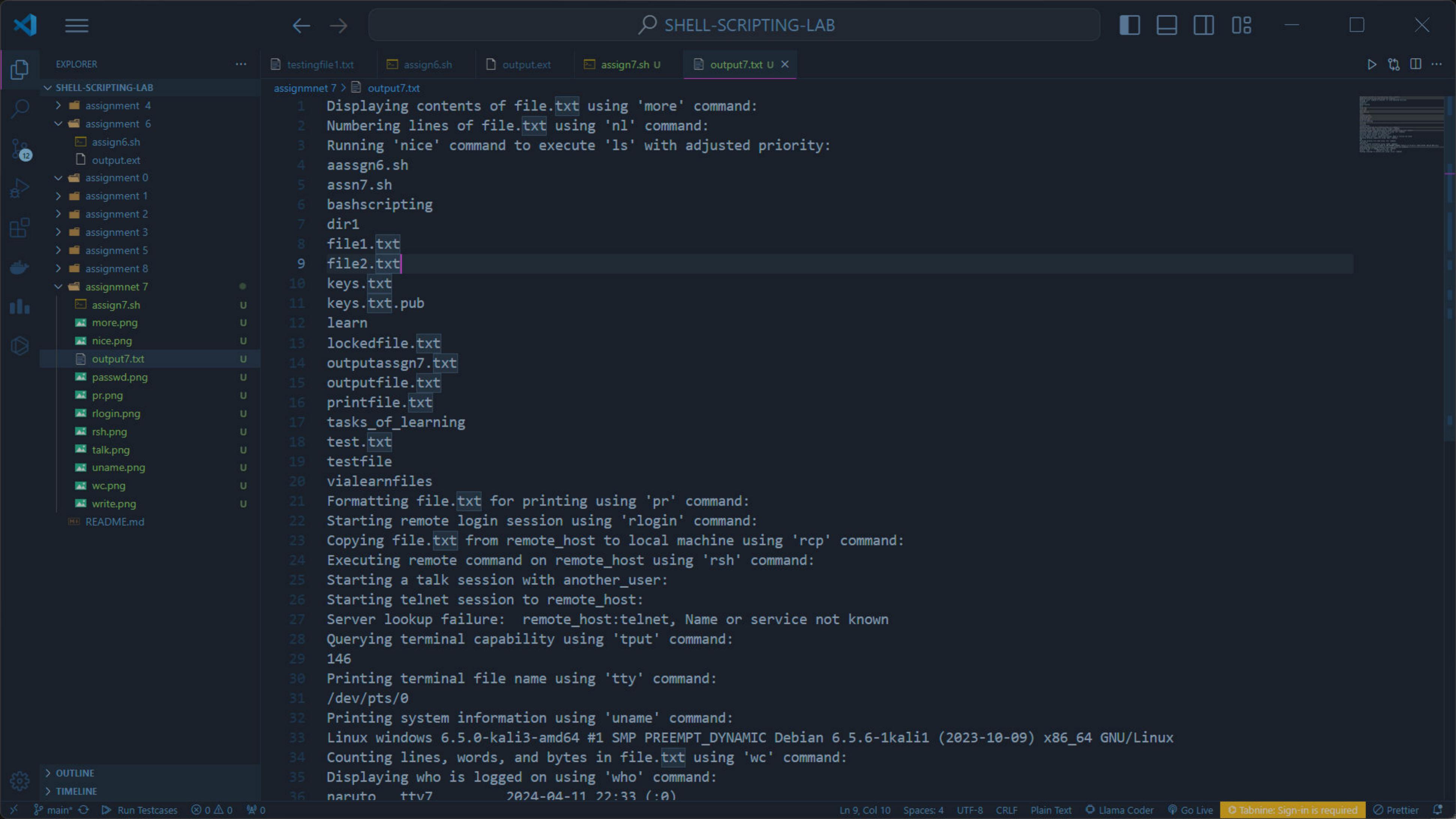
assignmnet 7 > assign7.sh
1 #!/bin/bash
2
3 # more - Display contents of a file one screen at a time
4 echo "Displaying contents of file.txt using 'more' command:"
5 more file.txt
6
7 # nl - Number lines of files
8 echo "Numbering lines of file.txt using 'nl' command:"
9 nl file.txt
10
11 # nice - Run a command with modified scheduling priority
12 echo "Running 'nice' command to execute 'ls' with adjusted priority:"
13 nice -n 10 ls
14
15 # # passwd - Change user password
16 # echo "Changing user password with 'passwd' command:"
17 # passwd
18
19 # --commented out coz it will try to change password everytime so
20
21
22 # pr - Format file for printing
23 echo "Formatting file.txt for printing using 'pr' command:"
24 pr file.txt
25
26
27 # rLogin - Remote Login
28 echo "Starting remote login session using 'rlogin' command:"
29 rlogin remote_host
30
31 # rcp - Copy files between hosts
32 echo "Copying file.txt from remote_host to local machine using 'rcp' command:"
33 rcp remote_host:file.txt .
34
35 # rsh - Remote shell
36 echo "Executing remote command on remote host using 'rsh' command:"
```



TIMELINE

SHELL-SCRIPTING-LAB

```
1 Displaying contents of file.txt using 'more' command:
2 Numbering lines of file.txt using 'nl' command:
3 Running 'nice' command to execute 'ls' with adjusted priority:
4 aassgn6.sh
5 assn7.sh
6 bashscripting
7 dir1
8 file1.txt
9 file2.txt
10 keys.txt
11 keys.txt.pub
12 learn
13 lockedfile.txt
14 outputassgn7.txt
15 outputfile.txt
16 printfile.txt
17 tasks_of_learning
18 test.txt
19 testfile
20 vialearnfiles
21 Formatting file.txt for printing using 'pr' command:
22 Starting remote login session using 'rlogin' command:
23 Copying file.txt from remote_host to local machine using 'rcp' command:
24 Executing remote command on remote_host using 'rsh' command:
25 Starting a talk session with another_user:
26 Starting telnet session to remote_host:
27 Server lookup failure: remote_host:telnet, Name or service not known
28 Querying terminal capability using 'tput' command:
29 146
30 Printing terminal file name using 'tty' command:
31 /dev/pts/0
32 Printing system information using 'uname' command:
33 Linux windows 6.5.0-kali3-amd64 #1 SMP PREEMPT_DYNAMIC Debian 6.5.6-1kali1 (2023-10-09) x86_64 GNU/Linux
34 Counting lines, words, and bytes in file.txt using 'wc' command:
35 Displaying who is logged on using 'who' command:
36 naruto ttv7 2024-04-11 22:33 (:0)
```





student@ai-HP-ProDesk-600-G4-MT: ~/Desktop/422176-CHARAN/UNIX LAB/ASSIGNMENT-06

student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422176-CHARAN/UNIX LAB/ASSIGNMENT-06\$ bash more.sh

This is line 1.

This is line 2.

This is line 3.

student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422176-CHARAN/UNIX LAB/ASSIGNMENT-06\$ █

```
student@ai-HP-ProDesk-600-G4-MT: ~/Desktop/422176-CHARAN/UNIX LAB/ASSIGNMENT-07$ chmod +x nice.sh
student@ai-HP-ProDesk-600-G4-MT: ~/Desktop/422176-CHARAN/UNIX LAB/ASSIGNMENT-07$ ./nice.sh ls
example.txt more.png more.sh nice.sh nl.png nl.sh
student@ai-HP-ProDesk-600-G4-MT: ~/Desktop/422176-CHARAN/UNIX LAB/ASSIGNMENT-07$ █
```

```
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422176-CHARAN/UNIX LAB/ASSIGNMENT-07$ chmod +x passwd.sh
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422176-CHARAN/UNIX LAB/ASSIGNMENT-07$ ./passwd.sh student
Changing password for student.
Current password:
New password:
Retype new password:
Password unchanged
New password:
Retype new password:
Password unchanged
New password:
Retype new password:
Password unchanged
passwd: Authentication token manipulation error
passwd: password unchanged
```

```
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422176-CHARAN/UNIX LAB/ASSIGNMENT-07$ █
```



```
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422176-CHARAN/UNIX LAB/ASSIGNMENT-07$ chmod +x pr.sh  
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422176-CHARAN/UNIX LAB/ASSIGNMENT-07$ ./pr.sh example.txt
```

2024-04-03 15:50

example.txt

Page 1

This is line 1.  
This is line 2.  
This is line 3.

```
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422176-CHARAN/UNIX LAB/ASSIGNMENT-07$ chmod +x rlogin.sh
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422176-CHARAN/UNIX LAB/ASSIGNMENT-07$ ./rlogin.sh 172.50.11.125
The authenticity of host '172.50.11.125 (172.50.11.125)' can't be established.
ECDSA key fingerprint is SHA256:HiQXCV7iSQ5aYEhHmr7/n5q0H4RieqWSeyr7dnCECRs.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '172.50.11.125' (ECDSA) to the list of known hosts.
student@172.50.11.125's password:
```

Welcome to Ubuntu 20.04.4 LTS (GNU/Linux 5.15.0-46-generic x86\_64)

- \* Documentation: <https://help.ubuntu.com>
- \* Management: <https://landscape.canonical.com>
- \* Support: <https://ubuntu.com/advantage>

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

Your Hardware Enablement Stack (HWE) is supported until April 2025.  
Last login: Wed Mar 20 15:52:56 2024 from 172.50.10.69

student@66:~\$ █

```
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422176-CHARAN/UNIX LAB/ASSIGNMENT-07$ bash rsh.sh
mkdir: cannot create directory 'example_directory': File exists
Directory contents:
total 0
-rw-rw-r-- 1 student student 0 Apr  3 16:09 file1.txt
-rw-rw-r-- 1 student student 0 Apr  3 16:09 file2.txt
Updated directory contents:
total 0
-rw-rw-r-- 1 student student 0 Apr  3 16:09 copied_file.txt
-rw-rw-r-- 1 student student 0 Apr  3 16:09 file1.txt
-rw-rw-r-- 1 student student 0 Apr  3 16:09 file2.txt
Updated directory contents after moving file2.txt:
total 0
-rw-rw-r-- 1 student student 0 Apr  3 16:09 copied_file.txt
-rw-rw-r-- 1 student student 0 Apr  3 16:09 file1.txt
-rw-rw-r-- 1 student student 0 Apr  3 16:09 moved_file.txt
Executing 'ls' command remotely...
1.a68g
2.a68
2.sml
9212546
all
anaconda3
CN-Labs
COP_290_Lab3-main
crc.cpp
Desktop
Documents
Downloads
eclipse
eclipse-workspace
exam
Fibonacci.sh.save
hadoop-3.3.6
juytnh.py
kamal.c
lab exam codes
Music
Pictures
practice
program.py
Public
__pycache__
python lab.py
python.py
snap
spanning tree 622123.py
Templates
text1.txt
Videos
vishnu1
wekafiles
y.tab.c
rmdir: failed to remove 'example_directory': Directory not empty
Files and directory removed.
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422176-CHARAN/UNIX LAB/ASSIGNMENT-07$
```

```
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422176-CHARAN/UNIX LAB/ASSIGNMENT-07$ sudo apt-get install talk
[sudo] password for student:
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  libwireshark14 libwiretap11 libwsutil12
Use 'sudo apt autoremove' to remove them.
Suggested packages:
  talkd
The following NEW packages will be installed:
  talk
0 upgraded, 1 newly installed, 0 to remove and 543 not upgraded.
Need to get 19.2 kB of archives.
After this operation, 56.3 kB of additional disk space will be used.
Get:1 http://in.archive.ubuntu.com/ubuntu focal/universe amd64 talk amd64 0.17-16 [19.2 kB]
Fetched 19.2 kB in 2s (12.7 kB/s)
Selecting previously unselected package talk.
(Reading database ... 221400 files and directories currently installed.)
Preparing to unpack .../talk_0.17-16_amd64.deb ...
Unpacking talk (0.17-16) ...
Setting up talk (0.17-16) ...
update-alternatives: using /usr/bin/netkit-ntalk to provide /usr/bin/talk (talk) in auto mode
Processing triggers for man-db (2.9.1-1) ...
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422176-CHARAN/UNIX LAB/ASSIGNMENT-07$ chmod +x talk.sh
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422176-CHARAN/UNIX LAB/ASSIGNMENT-07$ ./talk.sh student
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422176-CHARAN/UNIX LAB/ASSIGNMENT-07$ ./talk.sh student
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422176-CHARAN/UNIX LAB/ASSIGNMENT-07$ █
```

```
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422176-CHARAN/UNIX LAB/ASSIGNMENT-07$ bash uname.sh
```

Operating system name:

Linux

Kernel name:

ai-HP-ProDesk-600-G4-MT

Kernel release:

5.13.0-35-generic

Kernel version:

#40~20.04.1-Ubuntu SMP Mon Mar 7 09:18:32 UTC 2022

Machine hardware name:

x86\_64

Processor architecture:

x86\_64

Operating system version:

GNU/Linux

```
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422176-CHARAN/UNIX LAB/ASSIGNMENT-07$ █
```



student@ai-HP-ProDesk-600-G4-MT: ~/Desktop/422176-CHARAN/UNIX LAB/ASSIGNMENT-07

```
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422176-CHARAN/UNIX LAB/ASSIGNMENT-07$ chmod +x wc.sh
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422176-CHARAN/UNIX LAB/ASSIGNMENT-07$ ./wc.sh example.txt
3 12 48 example.txt
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422176-CHARAN/UNIX LAB/ASSIGNMENT-07$ █
```



student@ai-HP-ProDesk-600-G4-MT: ~/Desktop/422176-CHARAN/UNIX LAB/ASSIGNMENT-07

```
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422176-CHARAN/UNIX LAB/ASSIGNMENT-07$ chmod +x write.sh
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422176-CHARAN/UNIX LAB/ASSIGNMENT-07$ ./write.sh student
write: student has messages disabled
User has messages disabled. Consider using an alternative communication method.
student@ai-HP-ProDesk-600-G4-MT:~/Desktop/422176-CHARAN/UNIX LAB/ASSIGNMENT-07$ █
```

```

student@m3:~/Desktop/422259/UNIX/Lab 12$ cat bash1.sh
#!/usr/bin/bash

remotes=("student@172.50.14.4" "student@172.50.13.65")

for remote in "${remotes[@]}"; do
    echo "Working on Remote $remote..."
    ssh "$remote" 'bash -s' < ./bash2.sh
done
student@m3:~/Desktop/422259/UNIX/Lab 12$ cat bash2.sh
#!/usr/bin/bash

mpstat
vmstat -a
student@m3:~/Desktop/422259/UNIX/Lab 12$ █

```

```

student@m3:~/Desktop/422259/UNIX/Lab 12$ bash bash1.sh
Working on Remote student@172.50.14.4...
student@172.50.14.4's password:
Linux 5.15.0-84-generic (m5)   02/04/24      _x86_64_      (12 CPU)

03:37:17 PM IST  CPU  %usr  %nice  %sys %iowait  %irq  %soft %steal %guest %nice %idle
03:37:17 PM IST  all   3.42   0.05   0.98   2.78   0.00   0.13   0.00   0.00   0.00   0.00   92.62
procs -----memory-----swap-----io-----system-----cpu-----
r b swpd free  inact active si so bi bo in cs us sy id wa st
8 0 6 11802512 2791464 1017216 0 0 68 23 191 458 3 1 93 3 0

Working on Remote student@172.50.13.65...
student@172.50.13.65's password:
Linux 5.15.0-100-generic (m1)  02/04/24      _x86_64_      (12 CPU)

03:37:20 PM IST  CPU  %usr  %nice  %sys %iowait  %irq  %soft %steal %guest %nice %idle
03:37:20 PM IST  all   0.42   0.02   0.23   1.21   0.00   0.14   0.00   0.00   0.00   0.00   97.98
procs -----memory-----swap-----io-----system-----cpu-----
r b swpd free  inact active si so bi bo in cs us sy id wa st
8 0 0 12845772 2068836 789428 0 0 25 18 117 108 0 0 98 1 0
student@m3:~/Desktop/422259/UNIX/Lab 12$ █

```

The screenshot shows a GitHub repository page for 'SHELL-SCRIPTING-LAB'. The repository is public and has 7 commits. The commit history includes several assignments (assignment 4, assignment 6, assignment 1, assignment 2, assignment 3, assignment 5, assignment 7) and an initial commit. The repository has 0 stars, 1 watching, and 0 forks. The 'About' section shows 'LAB WEEK wise works' with activity stats. The 'Languages' section indicates Shell at 54.9% and C at 45.1%. The README file is present.

The screenshot shows the same GitHub repository page after a new commit. The commit history now includes 9 commits. The latest commit is 'added assign8' by THARUN7474, made 1 minute ago. The repository statistics remain the same: 0 stars, 1 watching, and 0 forks. The 'About' section and 'Languages' section are also identical to the first screenshot.

The GITHUB repo link

---<https://github.com/THARUN7474/SHELL-SCRIPTING-LAB-422116.git>

[link](<https://github.com/THARUN7474/SHELL-SCRIPTING-LAB-422116.git>)

final --link