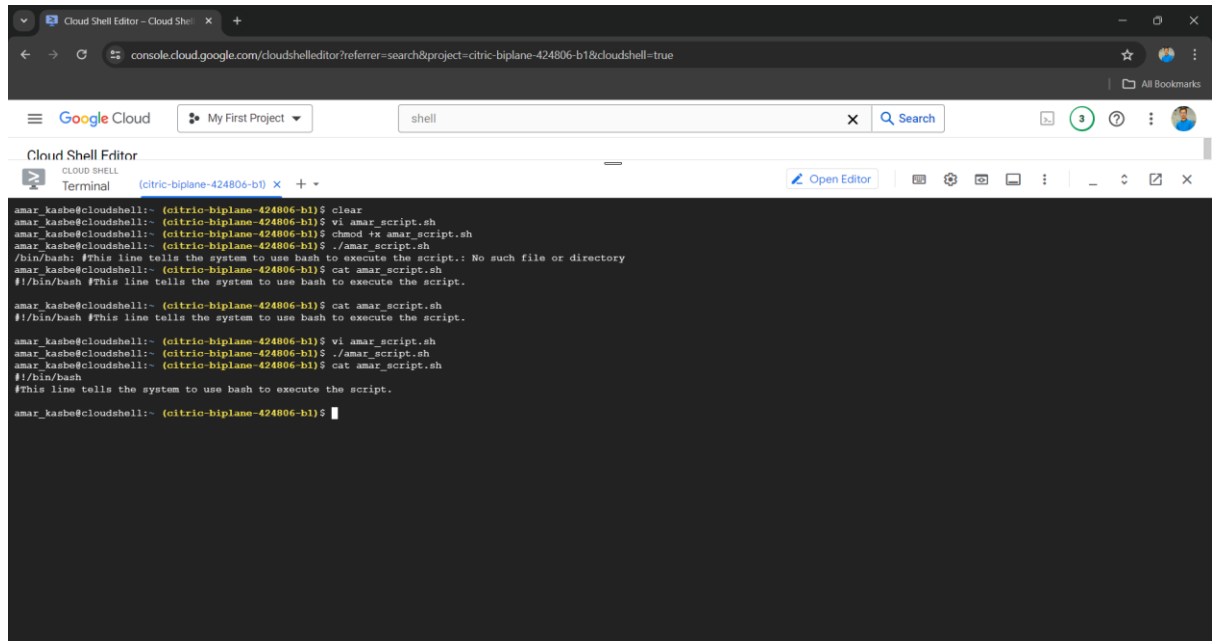


Shell Scripting Assignment 2

- Write steps for how to Execute a Shell Script?



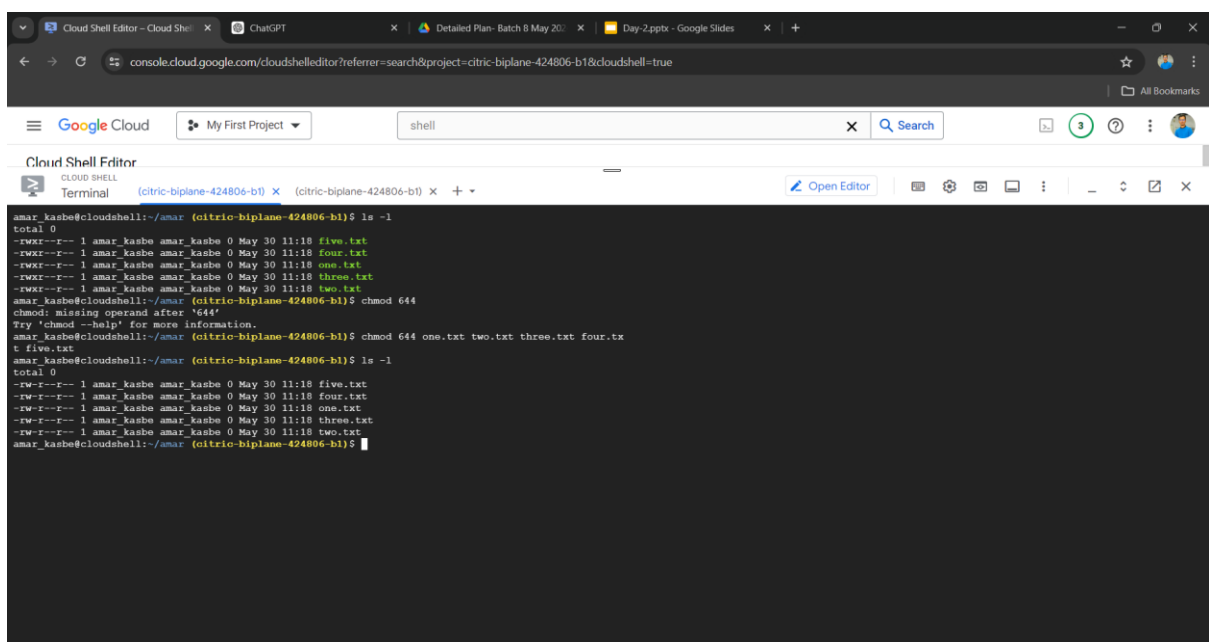
```
amar_kasbe@cloudshell:~ (citric-biplane-424806-b1)$ clear
amar_kasbe@cloudshell:~ (citric-biplane-424806-b1)$ vi amar_script.sh
amar_kasbe@cloudshell:~ (citric-biplane-424806-b1)$ chmod +x amar_script.sh
amar_kasbe@cloudshell:~ (citric-biplane-424806-b1)$ ./amar_script.sh
/bin/bash: #This line tells the system to use bash to execute the script.: No such file or directory
amar_kasbe@cloudshell:~ (citric-biplane-424806-b1)$ cat amar_script.sh
#!/bin/bash #This line tells the system to use bash to execute the script.

amar_kasbe@cloudshell:~ (citric-biplane-424806-b1)$ cat amar_script.sh
#!/bin/bash #This line tells the system to use bash to execute the script.

amar_kasbe@cloudshell:~ (citric-biplane-424806-b1)$ vi amar_script.sh
amar_kasbe@cloudshell:~ (citric-biplane-424806-b1)$ ./amar_script.sh
amar_kasbe@cloudshell:~ (citric-biplane-424806-b1)$ cat amar_script.sh
#!/bin/bash
#This line tells the system to use bash to execute the script.

amar_kasbe@cloudshell:~ (citric-biplane-424806-b1)$
```

- Create files and Set file permissions as below:
 - For the files below, set read and write permissions for Users and only read permission for group and other
one.txt, two.txt, three.txt, four.txt, five.txt



```
amar_kasbe@cloudshell:~/amar (citric-biplane-424806-b1)$ ls -l
total 0
-rw-r--r-- 1 amar_kasbe amar_kasbe 0 May 30 11:18 five.txt
-rw-r--r-- 1 amar_kasbe amar_kasbe 0 May 30 11:18 four.txt
-rw-r--r-- 1 amar_kasbe amar_kasbe 0 May 30 11:18 one.txt
-rw-r--r-- 1 amar_kasbe amar_kasbe 0 May 30 11:18 three.txt
-rw-r--r-- 1 amar_kasbe amar_kasbe 0 May 30 11:18 two.txt
amar_kasbe@cloudshell:~/amar (citric-biplane-424806-b1)$ chmod 644
chmod: missing operand after '644'
Try 'chmod --help' for more information.
amar_kasbe@cloudshell:~/amar (citric-biplane-424806-b1)$ chmod 644 one.txt two.txt three.txt four.t
t five.txt
amar_kasbe@cloudshell:~/amar (citric-biplane-424806-b1)$ ls -l
total 0
-rw-r--r-- 1 amar_kasbe amar_kasbe 0 May 30 11:18 five.txt
-rw-r--r-- 1 amar_kasbe amar_kasbe 0 May 30 11:18 four.txt
-rw-r--r-- 1 amar_kasbe amar_kasbe 0 May 30 11:18 one.txt
-rw-r--r-- 1 amar_kasbe amar_kasbe 0 May 30 11:18 three.txt
-rw-r--r-- 1 amar_kasbe amar_kasbe 0 May 30 11:18 two.txt
amar_kasbe@cloudshell:~/amar (citric-biplane-424806-b1)$
```

- For the files below, set read and write permissions for Users, group and other
one1.txt, two2.txt, three3.txt, four4.txt, five5.txt

```
t five.txt
amar_kasbe@cloudshell:~/amar (citric-biplane-424806-b1)$ ls -l
-bash: ls -l: command not found
amar_kasbe@cloudshell:~/amar (citric-biplane-424806-b1)$ ls -l
total 0
-rw-r--r-- 1 amar_kasbe amar_kasbe 0 May 30 11:18 five.txt
-rw-r--r-- 1 amar_kasbe amar_kasbe 0 May 30 11:18 four.txt
-rw-r--r-- 1 amar_kasbe amar_kasbe 0 May 30 11:18 one.txt
-rw-r--r-- 1 amar_kasbe amar_kasbe 0 May 30 11:18 three.txt
-rw-r--r-- 1 amar_kasbe amar_kasbe 0 May 30 11:18 two.txt
amar_kasbe@cloudshell:~/amar (citric-biplane-424806-b1)$ clear
amar_kasbe@cloudshell:~/amar (citric-biplane-424806-b1)$ ls -l
total 0
-rw-r--r-- 1 amar_kasbe amar_kasbe 0 May 30 11:18 five.txt
-rw-r--r-- 1 amar_kasbe amar_kasbe 0 May 30 11:18 four.txt
-rw-r--r-- 1 amar_kasbe amar_kasbe 0 May 30 11:18 one.txt
-rw-r--r-- 1 amar_kasbe amar_kasbe 0 May 30 11:18 three.txt
-rw-r--r-- 1 amar_kasbe amar_kasbe 0 May 30 11:18 two.txt
amar_kasbe@cloudshell:~/amar (citric-biplane-424806-b1)$ chmod 644
chmod: missing operand after '644'
Try 'chmod --help' for more information.
amar_kasbe@cloudshell:~/amar (citric-biplane-424806-b1)$ chmod 644 one.txt two.txt three.txt four.txt
t five.txt
amar_kasbe@cloudshell:~/amar (citric-biplane-424806-b1)$ ls -l
total 0
-rw-r--r-- 1 amar_kasbe amar_kasbe 0 May 30 11:18 five.txt
-rw-r--r-- 1 amar_kasbe amar_kasbe 0 May 30 11:18 four.txt
-rw-r--r-- 1 amar_kasbe amar_kasbe 0 May 30 11:18 one.txt
-rw-r--r-- 1 amar_kasbe amar_kasbe 0 May 30 11:18 three.txt
-rw-r--r-- 1 amar_kasbe amar_kasbe 0 May 30 11:18 two.txt
amar_kasbe@cloudshell:~/amar (citric-biplane-424806-b1)$ chmod 666 one.txt two.txt three.txt four.txt five.txt
amar_kasbe@cloudshell:~/amar (citric-biplane-424806-b1)$ ls -l
total 0
-rw-rw-rw- 1 amar_kasbe amar_kasbe 0 May 30 11:18 five.txt
-rw-rw-rw- 1 amar_kasbe amar_kasbe 0 May 30 11:18 four.txt
-rw-rw-rw- 1 amar_kasbe amar_kasbe 0 May 30 11:18 one.txt
-rw-rw-rw- 1 amar_kasbe amar_kasbe 0 May 30 11:18 three.txt
-rw-rw-rw- 1 amar_kasbe amar_kasbe 0 May 30 11:18 two.txt
amar_kasbe@cloudshell:~/amar (citric-biplane-424806-b1)$
```

- For the files below, set read, write and execute permissions for Users and only read and execute permissions for group and other one11.txt, two22.txt, three33.txt, four44.txt, five55.txt

```
amar_kasbe@cloudshell:~/amar (citric-biplane-424806-b1)$ ls -l
total 0
-rw-r--r-- 1 amar_kasbe amar_kasbe 0 May 30 11:18 five.txt
-rw-r--r-- 1 amar_kasbe amar_kasbe 0 May 30 11:18 four.txt
-rw-r--r-- 1 amar_kasbe amar_kasbe 0 May 30 11:18 one.txt
-rw-r--r-- 1 amar_kasbe amar_kasbe 0 May 30 11:18 three.txt
-rw-r--r-- 1 amar_kasbe amar_kasbe 0 May 30 11:18 two.txt
amar_kasbe@cloudshell:~/amar (citric-biplane-424806-b1)$ chmod 644
chmod: missing operand after '644'
Try 'chmod --help' for more information.
amar_kasbe@cloudshell:~/amar (citric-biplane-424806-b1)$ chmod 644 one.txt two.txt three.txt four.txt
t five.txt
amar_kasbe@cloudshell:~/amar (citric-biplane-424806-b1)$ ls -l
total 0
-rw-r--r-- 1 amar_kasbe amar_kasbe 0 May 30 11:18 five.txt
-rw-r--r-- 1 amar_kasbe amar_kasbe 0 May 30 11:18 four.txt
-rw-r--r-- 1 amar_kasbe amar_kasbe 0 May 30 11:18 one.txt
-rw-r--r-- 1 amar_kasbe amar_kasbe 0 May 30 11:18 three.txt
-rw-r--r-- 1 amar_kasbe amar_kasbe 0 May 30 11:18 two.txt
amar_kasbe@cloudshell:~/amar (citric-biplane-424806-b1)$ chmod 666 one.txt two.txt three.txt four.txt five.txt
amar_kasbe@cloudshell:~/amar (citric-biplane-424806-b1)$ ls -l
total 0
-rw-rw-rw- 1 amar_kasbe amar_kasbe 0 May 30 11:18 five.txt
-rw-rw-rw- 1 amar_kasbe amar_kasbe 0 May 30 11:18 four.txt
-rw-rw-rw- 1 amar_kasbe amar_kasbe 0 May 30 11:18 one.txt
-rw-rw-rw- 1 amar_kasbe amar_kasbe 0 May 30 11:18 three.txt
-rw-rw-rw- 1 amar_kasbe amar_kasbe 0 May 30 11:18 two.txt
amar_kasbe@cloudshell:~/amar (citric-biplane-424806-b1)$ chmod 755 one.txt two.txt three.txt four.txt five.txt
amar_kasbe@cloudshell:~/amar (citric-biplane-424806-b1)$ ls -l
total 0
-rwxr-xr-x 1 amar_kasbe amar_kasbe 0 May 30 11:18 five.txt
-rwxr-xr-x 1 amar_kasbe amar_kasbe 0 May 30 11:18 four.txt
-rwxr-xr-x 1 amar_kasbe amar_kasbe 0 May 30 11:18 one.txt
-rwxr-xr-x 1 amar_kasbe amar_kasbe 0 May 30 11:18 three.txt
-rwxr-xr-x 1 amar_kasbe amar_kasbe 0 May 30 11:18 two.txt
amar_kasbe@cloudshell:~/amar (citric-biplane-424806-b1)$
```

- Create a file with some repeated lines .write command to filter out repeated lines in a file.

```
sanjay
sagar
cat: grep: No such file or directory
cat: s: No such file or directory
amar_kasbe@cloudshell:~/amar (citric-biplane-424806-b1)$ cat main.txt grep -s
amar
kasbe
shirsh
shree
omkar
sanjay
sagar
cat: grep: No such file or directory
amar_kasbe@cloudshell:~/amar (citric-biplane-424806-b1)$ grep "s" main.txt
amar_kasbe@cloudshell:~/amar (citric-biplane-424806-b1)$ grep "s" main.txt
grep: main.txt: No such file or directory
amar_kasbe@cloudshell:~/amar (citric-biplane-424806-b1)$ grep "s" main.txt
grep: main.txt: No such file or directory
amar_kasbe@cloudshell:~/amar (citric-biplane-424806-b1)$ grep "s" main.txt
kasbe
shirsh
shree
sanjay
sagar
amar_kasbe@cloudshell:~/amar (citric-biplane-424806-b1)$ grep "s" main.txt
amar
kasbe
shirsh
shree
omkar
sanjay
sagar
amar_kasbe@cloudshell:~/amar (citric-biplane-424806-b1)$ cat main.txt | grep "s"
kasbe
shirsh
shree
sanjay
sagar
amar_kasbe@cloudshell:~/amar (citric-biplane-424806-b1)$
```

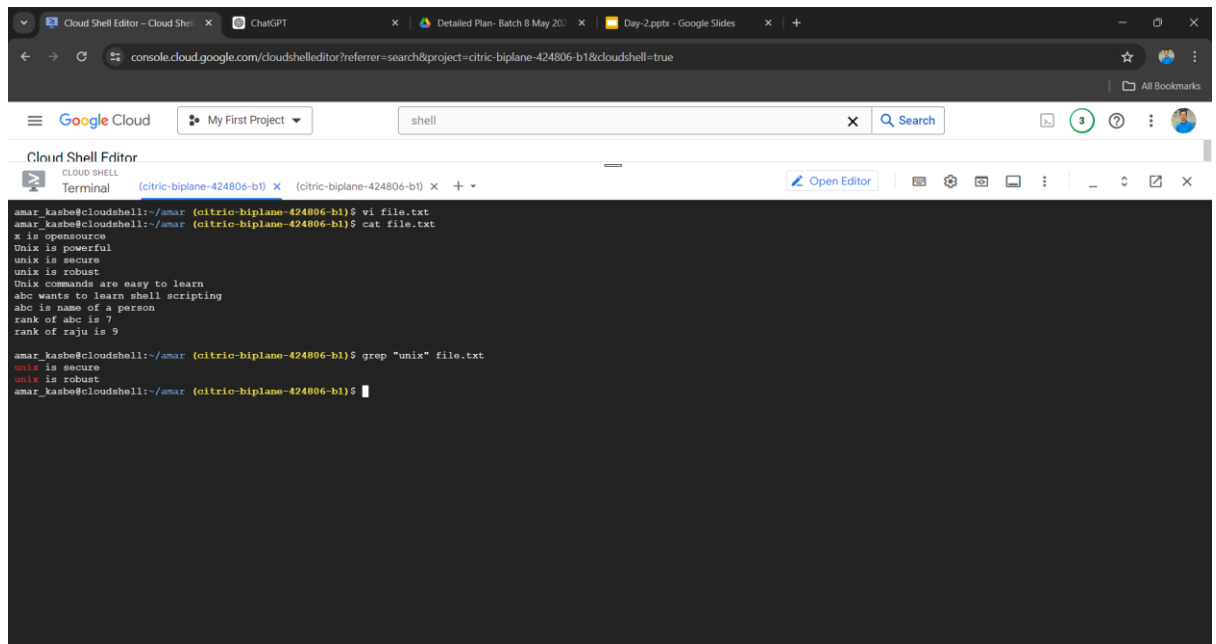
- Given a file find the count of lines containing the word “ABC”.

```
amar_kasbe@cloudshell:~/amar (citric-biplane-424806-b1)$ vi main.txt
amar_kasbe@cloudshell:~/amar (citric-biplane-424806-b1)$ cat main.txt
The event will be held at the ABC Conference Center.
ABC News reported on the latest developments.
We need to discuss the strategy.
The book contains an appendix with examples.
The widget is available in different colors.
amar_kasbe@cloudshell:~/amar (citric-biplane-424806-b1)$ grep -c "ABC" main.txt
2
amar_kasbe@cloudshell:~/amar (citric-biplane-424806-b1)$ grep "ABC" main.txt
The event will be held at the ABC Conference Center.
ABC News reported on the latest developments.
amar_kasbe@cloudshell:~/amar (citric-biplane-424806-b1)$
```

- Create file.txt that consist of following

Unix is opensource
Unix is powerful
unix is secure
unix is robust
Unix commands are easy to learn
abc wants to learn shell scripting
abc is name of a person
rank of abc is 7
rank of raju is 9

a) Find unix string in file.txt using grep

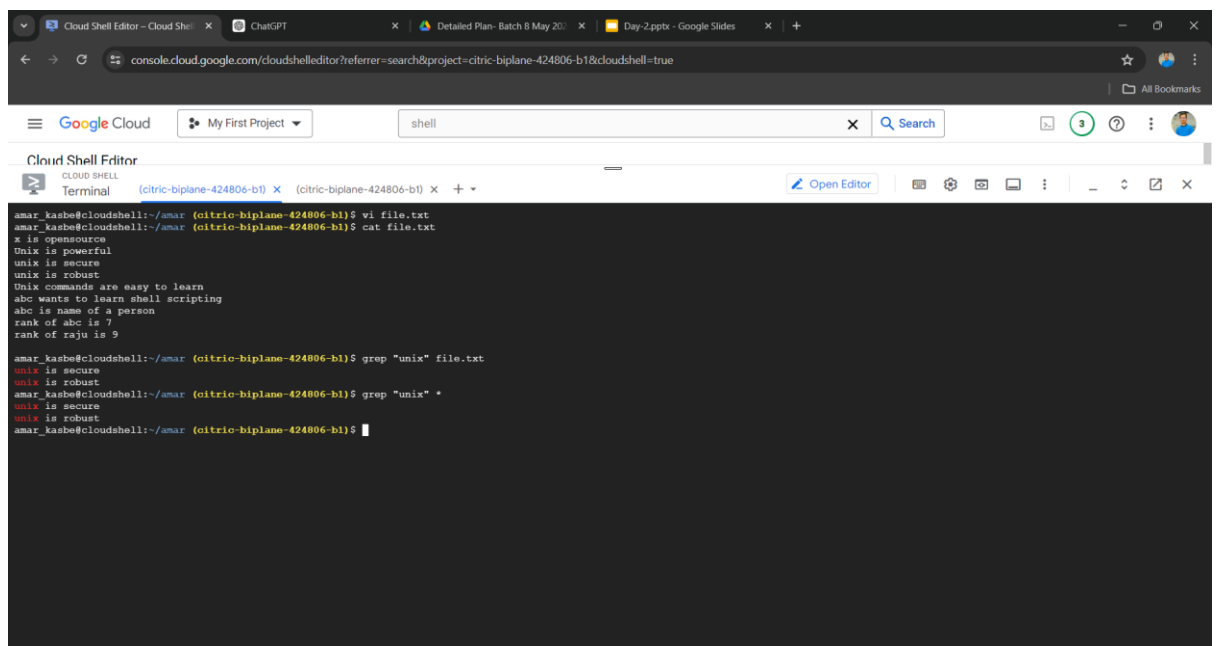


The screenshot shows the Google Cloud Shell Editor interface. The terminal window displays the following commands and output:

```
amar_kasbe@cloudshell:~/amar (citric-biplane-424806-b1)$ vi file.txt
amar_kasbe@cloudshell:~/amar (citric-biplane-424806-b1)$ cat file.txt
x is opensource
Unix is powerful
unix is secure
unix is robust
Unix commands are easy to learn
abc wants to learn shell scripting
abc is name of a person
rank of abc is 7
rank of raju is 9

amar_kasbe@cloudshell:~/amar (citric-biplane-424806-b1)$ grep "unix" file.txt
unix is secure
unix is robust
amar_kasbe@cloudshell:~/amar (citric-biplane-424806-b1)$
```

b) Find unix string in all files from current directory using grep

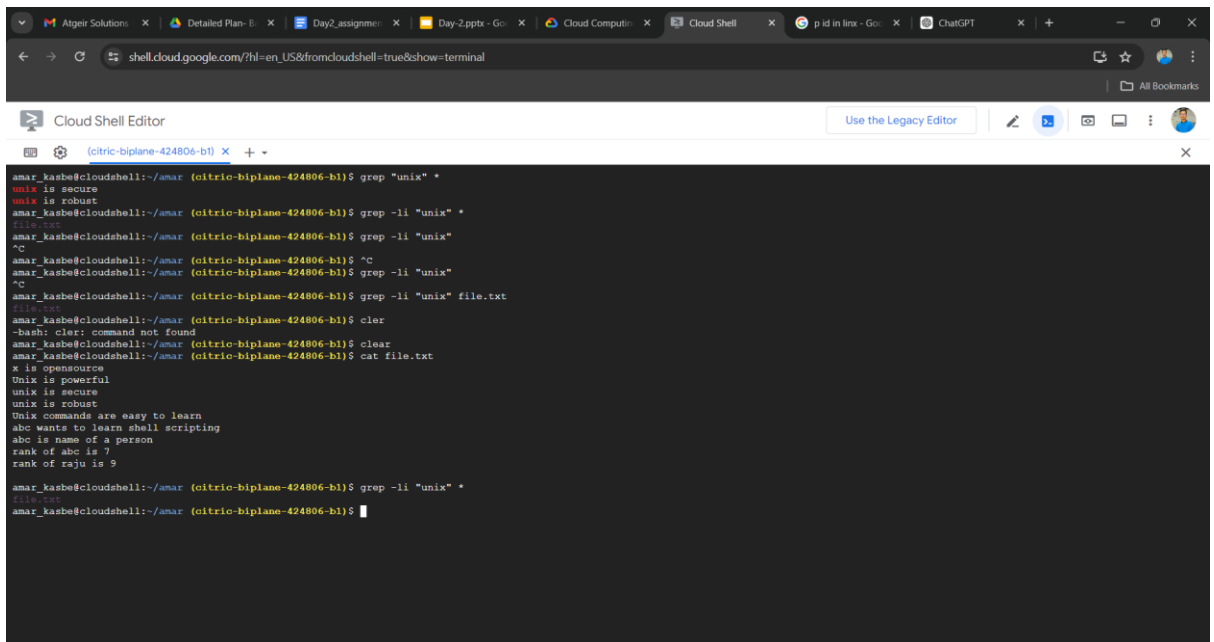


The screenshot shows the Google Cloud Shell Editor interface. The terminal window displays the following commands and output:

```
amar_kasbe@cloudshell:~/amar (citric-biplane-424806-b1)$ vi file.txt
amar_kasbe@cloudshell:~/amar (citric-biplane-424806-b1)$ cat file.txt
x is opensource
Unix is powerful
unix is secure
unix is robust
Unix commands are easy to learn
abc wants to learn shell scripting
abc is name of a person
rank of abc is 7
rank of raju is 9

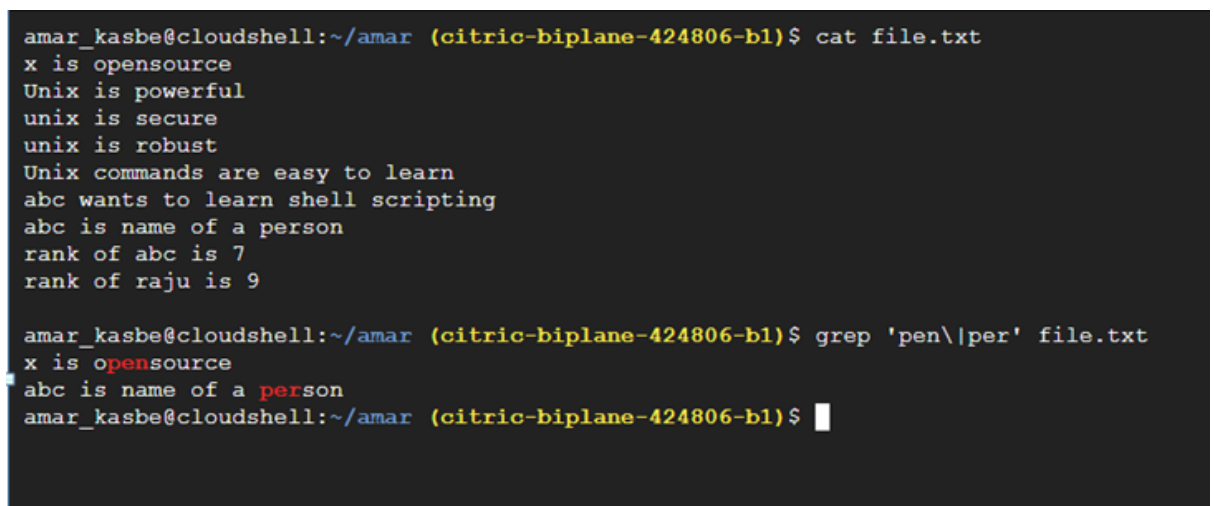
amar_kasbe@cloudshell:~/amar (citric-biplane-424806-b1)$ grep "unix" file.txt
unix is secure
unix is robust
amar_kasbe@cloudshell:~/amar (citric-biplane-424806-b1)$ grep "unix" *
unix is secure
unix is robust
amar_kasbe@cloudshell:~/amar (citric-biplane-424806-b1)$
```

c) Print all the file names where “Unix” or “unix” string is found using grep



```
amar_kasbe@cloudshell:~/amar (citric-biplane-424806-b1)$ grep "unix" *
unix is secure
unix is robust
amar_kasbe@cloudshell:~/amar (citric-biplane-424806-b1)$ grep -li "unix" *
file.txt
amar_kasbe@cloudshell:~/amar (citric-biplane-424806-b1)$ grep -li "unix"
"C
amar_kasbe@cloudshell:~/amar (citric-biplane-424806-b1)$ "C
amar_kasbe@cloudshell:~/amar (citric-biplane-424806-b1)$ grep -li "unix"
"C
amar_kasbe@cloudshell:~/amar (citric-biplane-424806-b1)$ grep -li "unix" file.txt
file.txt
amar_kasbe@cloudshell:~/amar (citric-biplane-424806-b1)$ clear
-bash: clear: command not found
amar_kasbe@cloudshell:~/amar (citric-biplane-424806-b1)$ clear
amar_kasbe@cloudshell:~/amar (citric-biplane-424806-b1)$ cat file.txt
x is opensource
Unix is powerful
unix is secure
unix is robust
Unix commands are easy to learn
abc wants to learn shell scripting
abc is name of a person
rank of abc is 7
rank of raju is 9
amar_kasbe@cloudshell:~/amar (citric-biplane-424806-b1)$ grep -li "unix" *
file.txt
amar_kasbe@cloudshell:~/amar (citric-biplane-424806-b1)$
```

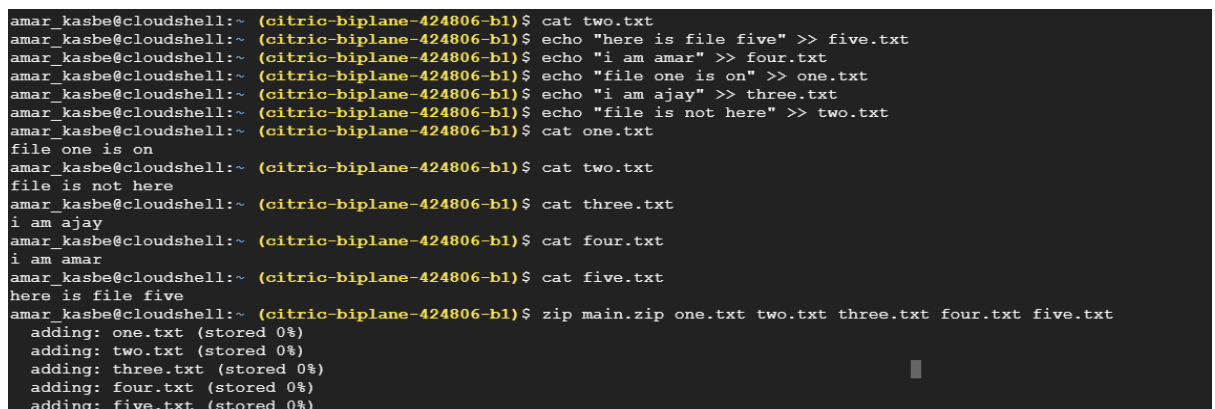
d) Print all the lines that has pen or per in file.txt using grep



```
amar_kasbe@cloudshell:~/amar (citric-biplane-424806-b1)$ cat file.txt
x is opensource
Unix is powerful
unix is secure
unix is robust
Unix commands are easy to learn
abc wants to learn shell scripting
abc is name of a person
rank of abc is 7
rank of raju is 9

amar_kasbe@cloudshell:~/amar (citric-biplane-424806-b1)$ grep 'pen\|per' file.txt
x is opensource
abc is name of a person
amar_kasbe@cloudshell:~/amar (citric-biplane-424806-b1)$
```

- Create 4 files with different text in it and then create a zip file to archive all 4 files ?



```
amar_kasbe@cloudshell:~ (citric-biplane-424806-b1)$ cat two.txt
amar_kasbe@cloudshell:~ (citric-biplane-424806-b1)$ echo "here is file five" >> five.txt
amar_kasbe@cloudshell:~ (citric-biplane-424806-b1)$ echo "i am amar" >> four.txt
amar_kasbe@cloudshell:~ (citric-biplane-424806-b1)$ echo "file one is on" >> one.txt
amar_kasbe@cloudshell:~ (citric-biplane-424806-b1)$ echo "i am ajay" >> three.txt
amar_kasbe@cloudshell:~ (citric-biplane-424806-b1)$ echo "file is not here" >> two.txt
amar_kasbe@cloudshell:~ (citric-biplane-424806-b1)$ cat one.txt
file one is on
amar_kasbe@cloudshell:~ (citric-biplane-424806-b1)$ cat two.txt
file is not here
amar_kasbe@cloudshell:~ (citric-biplane-424806-b1)$ cat three.txt
i am ajay
amar_kasbe@cloudshell:~ (citric-biplane-424806-b1)$ cat four.txt
i am amar
amar_kasbe@cloudshell:~ (citric-biplane-424806-b1)$ cat five.txt
here is file five
amar_kasbe@cloudshell:~ (citric-biplane-424806-b1)$ zip main.zip one.txt two.txt three.txt four.txt five.txt
adding: one.txt (stored 0%)
adding: two.txt (stored 0%)
adding: three.txt (stored 0%)
adding: four.txt (stored 0%)
adding: five.txt (stored 0%)
```

- Create a separate directory and unzip the file created in the previous question ?

```
amar_kasbe@cloudshell:~ (citric-biplane-424806-b1)$ zip main.zip one.txt two.txt three.txt four.txt five.txt
updating: one.txt (stored 0%)
updating: two.txt (stored 0%)
updating: three.txt (stored 0%)
updating: four.txt (stored 0%)
updating: five.txt (stored 0%)
amar_kasbe@cloudshell:~ (citric-biplane-424806-b1)$ mkdir main_zip
amar_kasbe@cloudshell:~ (citric-biplane-424806-b1)$ unzip main.zip -d main_zip
Archive:  main.zip
  extracting: main_zip/one.txt
  extracting: main_zip/two.txt
  extracting: main_zip/three.txt
  extracting: main_zip/four.txt
  extracting: main_zip/five.txt
amar_kasbe@cloudshell:~ (citric-biplane-424806-b1)$
```

- Create a file1.txt and file2.txt with text as below:

file1.txt	file2.txt
1	11
2	14
3	15
3	13
4	13
5	19
6	17
6	17
7	16
8	16
9	20
10	12

Sort the content of file1.txt and file2.txt and save the result with unique lines only in the file file3.txt

```
amar_kasbe@cloudshell:~/amar/amarkasbe$ cat <<EOF > file1.txt
1
2
3
3
4
5
6
6
7
8
9
10
EOF
```

```
amar_kasbe@cloudshell:~/amar/amarkasbe$ cat <<EOF > file2.txt
11
14
15
13
13
19
17
17
16
16
20
12
EOF
```

```
amar_kasbe@cloudshell:~/amar/amarkasbe$ sort -u file1.txt file2.txt >> file3.txt
amar_kasbe@cloudshell:~/amar/amarkasbe$ cat file3.txt
1
10
11
12
13
14
15
16
17
19
2
20
3
4
5
6
7
```

```
amar_kasbe@cloudshell:~/amar/amarkasbe$ sort -n file3.txt
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
19
20
```

