Shell Script Assignment 5

1. How Can We Find a Pattern in a File Without Using the *grep* Command?

```
amar_kasbe@cloudshell:~/script (citric-biplane-424806-b1)$ cat text1.txt
apple
banana
orange
grape
amar_kasbe@cloudshell:~/script (citric-biplane-424806-b1)$ awk '/orange/' text1.txt
orange
amar_kasbe@cloudshell:~/script (citric-biplane-424806-b1)$ sed -n '/an/' text1.txt
sed: -e expression #1, char 4: missing command
amar_kasbe@cloudshell:~/script (citric-biplane-424806-b1)$ sed -n '/an/p' text1.txt
banana
orange
amar_kasbe@cloudshell:~/script (citric-biplane-424806-b1)$
```

2. Given a file, write a command sequence to find the count of each word.

- 3. How do we delete all blank lines in a file?
 - \rightarrow /^\$/ is a regular expression that matches blank lines.

```
amar_kasbe@cloudshell:~/script (citric-biplane-424806-b1)$ cat text1.txt
apple

banana
orange

grape
amar_kasbe@cloudshell:~/script (citric-biplane-424806-b1)$ sed '/^$/d' text1.txt
apple
banana
orange
grape
amar_kasbe@cloudshell:~/script (citric-biplane-424806-b1)$
```

- 4. Create a file1.txt that consists of following
 - 1. hello good morning.
 - 2. how are you today.
 - 3. its a bright sunny day.
 - 4. what have you planned for the day.
 - 5. did you complete the tasks.
 - 6. which book are you gonna read. you are so talented.

```
amar_kasbe@cloudshell:~/script (citric-biplane-424806-b1)$ vi file.txt
amar_kasbe@cloudshell:~/script (citric-biplane-424806-b1)$ cat file.txt
1. good morning.
2. how are you today.
3. its a bright sunny day.
4. what have you planned for the day.
5. did you complete the tasks.
6. which book are you gonna read.
7. you are so talented.
amar_kasbe@cloudshell:~/script (citric-biplane-424806-b1)$
```

→ Display first 5 lines using sed

```
amar_kasbe@cloudshell:~/script (citric-biplane-424806-b1)$ sed -n '1,5p' file.txt
1. good morning.
2. how are you today.
3. its a bright sunny day.
4. what have you planned for the day.
5. did you complete the tasks.
amar_kasbe@cloudshell:~/script (citric-biplane-424806-b1)$
```

→ Display only 2nd line using sed

```
amar_kasbe@cloudshell:~/script (citric-biplane-424806-b1)$ sed -n '2p' file.txt
2. how are you today.
amar_kasbe@cloudshell:~/script (citric-biplane-424806-b1)$
```

→ Display all the lines that consists of pattern you

```
amar_kasbe@cloudshell:~/script (citric-biplane-424806-b1)$ sed -n '/you/p' file.txt
2. how are you today.
4. what have you planned for the day.
5. did you complete the tasks.
6. which book are you gonna read.
7. you are so talented.
amar_kasbe@cloudshell:~/script (citric-biplane-424806-b1)$
```

→ Display all the lines that begin with the pattern you

```
amar_kasbe@cloudshell:~/script (citric-biplane-424806-b1)$ sed -n '/^[0-7]\. you/p' file.txt 7. you are so talented.
```

5. Print the decimal and octal value of 20 using printf

```
amar_kasbe@cloudshell:~/script (citric-biplane-424806-b1)$ printf "Decimal: %d\n" 20
Decimal: 20
amar_kasbe@cloudshell:~/script (citric-biplane-424806-b1)$ printf "Octal: %o\n" 20
Octal: 24
amar_kasbe@cloudshell:~/script (citric-biplane-424806-b1)$
```

6. Write a shell script for reading the password from user but display is disabled

Expected Output: enter a password given password=cloudera

```
amar_kasbe@cloudshell:~/script (citric-biplane-424806-b1)$ cat que6.sh
#!/bin/bash

read -s -p "Enter a pasword:-" password

# Display the entered password
echo -e "\nGiven password: $password"

amar_kasbe@cloudshell:~/script (citric-biplane-424806-b1)$ sh que6.sh
Enter a pasword:-
Given password: amar551
amar_kasbe@cloudshell:~/script (citric-biplane-424806-b1)$
```

7. write a shell script using who command and grep that asks the user to enter username and displays the output as User Logged In or NOT respectively.

Expected Output1: enter user name: cloudera user not logged in Expected Output2: enter user name: farha user logged in

```
#!/bin/bash
read -p "Enter user name: " username
# Get the current user
user=$ (whoami)
# Check if the user is logged in
if echo "$user" | grep -qw "$username"; then
    echo "User logged in"
else
   echo "User not logged in"
fi
amar kasbe@cloudshell:~/script$ bash que7.sh
Enter user name: amar kasbe
User logged in
amar kasbe@cloudshell:~/script$ bash que7.sh
Enter user name: vedant
User not logged in
amar kasbe@cloudshell:~/script$
```

8. A file consists of 50 lines. Write a shell script to split into two files having 25 lines each.

```
24
25
amar_kasbe@cloudshell:~/script$ cat que8.sh
file=$1
head -n 25 $file >> file_first
tail -n 25 $file >> file_last
amar_kasbe@cloudshell:~/script$ cat file_first
1
2
```

```
amar_kasbe@cloudshell:~/script$ cat file_first

2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
```

```
amar_kasbe@cloudshell:~/script$ cat file_last
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
amar_kasbe@cloudshell:~/script$
```

9. A file has 100 lines. Use for loop to read each line and append into another file.

```
amar_kasbe@cloudshell:~/script$ vi que9.sh
amar_kasbe@cloudshell:~/script$ seq 1 100 > input.txt
amar_kasbe@cloudshell:~/script$ sh que9.sh input.txt
amar_kasbe@cloudshell:~/script$ cat que9.sh
#!/bin/bash
# Generate 100 lines of code and save to the input file
input_file="input.txt"
for ((i=1; i<=100; i++)); do
    echo "Line $i of code" >> "$input_file"
# Output file name for combined lines
output_file="output.txt"
# Loop through each line in the input file
for ({i=1; i<=100; i++)); do
    # Read the current line
    line=$(sed -n "${i}p" "$input_file")</pre>
      # Append the line to the output file
echo "$line" >> "$output_file"
 amar_kasbe@cloudshell:~/script$ ls
                                                               leap_yr.sh output.txt
mul.sh practice.sh
output1 que6.sh
                   check3.sh file1.txt
check_arg.sh file_first
check.sh file_last
add.sh
                                                                                                             que9.sh
                                                                                                                                     script11.sh text
                   check3.sh
                                                                                      practice.sh sample1.csv
                                                                                                                                     script12.sh
                                                                                                                                                            text1.txt
 array.sh
                                                                                                             sample1.txt
                                                                                                                                      script1.sh
                                                                                                                                                            text.txt
                check.sh
did.sh
cal1.sh
                                           file.txt
                                                                output1.txt que7.sh
                                                                                                             sample.csv
                                                                                                                                     script.sh
                  employee.txt great.sh
                                                                output2
                                                                                      que8.sh
                                                                                                             sample.txt
                                                                                                                                     status.sh
 check1.sh emp.sh
check1.sh emp.sh input.txt output2.tx
amar_kasbe@cloudshell:~/script$ ^C
amar_kasbe@cloudshell:~/script$ cat output.txt
                                                                output2.txt que8.txt
                                                                                                             script111.sh sub.sh
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
```

10. A file has 10 lines. Print 5th to 7th line.

```
amar_kasbe@cloudshell:~/script$ cat que10.txt
1
2
3
4
5
6
7
8
9
10
amar_kasbe@cloudshell:~/script$ sed -n '5,7p' que10.txt
5
6
7
amar_kasbe@cloudshell:~/script$
```

11. Calling one shell script from another shell script. Also capture the output

```
amar_kasbe@cloudshell:~/script$ cat 11a.sh
op=$(./11b.sh)
echo "output from 11b"
echo "$op"
amar_kasbe@cloudshell:~/script$ cat 11b.sh
echo "in script 11b.sh"
amar_kasbe@cloudshell:~/script$ bash 11a.sh
output from 11b
in script 11b.sh
amar_kasbe@cloudshell:~/script$
```

12. Splitting a file into multiple files using for loop

```
amar_kasbe@cloudshell:~/script$ cat part2.txt

11
12
13
14
15
16
17
18
19
20
amar_kasbe@cloudshell:~/script$
```