- Write a shell script that determines the period for which a specified user is working on the system.

```
echo "Enter the Username"
read asj
last $asj
```

```
ayushmaan@ASJ:~/Music/4$ nano a.sh
ayushmaan@ASJ:~/Music/4$ chmod +x a.sh
ayushmaan@ASJ:~/Music/4$ ./a.sh
Enter the Username
ayushmaan
ayushmaa tty2         tty2             Wed Nov  2 21:02   still logged in
ayushmaa tty2         tty2             Sun Oct 30 18:07 - crash (3+02:55)
ayushmaa tty2         tty2             Sun Oct 30 17:57 - crash  (00:08)
ayushmaa tty2         tty2             Sun Oct 30 14:11 - 14:18  (00:06)
ayushmaa tty2         tty2             Thu Oct  6 14:09 - crash (24+00:01)
ayushmaa tty2         tty2             Thu Oct  6 13:56 - down   (00:10)
ayushmaa tty2         tty2             Thu Sep 29 13:51 - crash (7+00:04)
ayushmaa tty2         tty2             Wed Sep 28 23:44 - crash  (14:06)
ayushmaa tty2         tty2             Wed Sep 28 21:09 - crash  (02:34)
ayushmaa tty2         tty2             Tue Sep 27 22:29 - crash  (22:39)
ayushmaa tty2         tty2             Tue Sep 27 22:21 - crash  (00:07)
ayushmaa tty2         tty2             Sun Sep 25 22:59 - crash (1+23:21)
ayushmaa tty2         tty2             Thu Sep 22 14:28 - crash (3+08:31)
ayushmaa tty2         tty2             Thu Sep 22 13:37 - crash  (00:50)
ayushmaa tty2         tty2             Thu Sep 22 13:35 - crash  (00:00)
ayushmaa tty2         tty2             Thu Sep 22 13:08 - crash  (00:26)
ayushmaa tty2         tty2             Wed Sep 14 23:46 - crash (7+13:22)
ayushmaa tty2         tty2             Thu Sep  8 19:54 - crash (6+03:51)

wtmp begins Thu Sep  8 19:53:13 2022
```

- Write a shell script that displays all the lines between start and end line numbers passed as argument.

```
ayushmaan@ASJ:~/Music/4$ chmod +x b.sh
ayushmaan@ASJ:~/Music/4$ ./b.sh
enter the file name:
a.txt
enter the starting line number:
1
enter the ending line number:
3
hi my
name is
ayushmaan singh
```

```
echo "enter the file name:"
read fname
echo "enter the starting line number:"
read s
echo "enter the ending line number:"
read n
sed -n $s,$n\p $fname | cat > new1.txt
cat new1.txt
```

- Write a shell script that deletes all lines containing a specified word in one or more files supplied as arguments to it

```
ayushmaan@ASJ:~/Music/4$ nano c.sh
ayushmaan@ASJ:~/Music/4$ chmod +x c.sh
ayushmaan@ASJ:~/Music/4$ ./c.sh
NO ARGUMENTS
```

```
if [ $# -eq 0 ]
then
echo NO ARGUMENTS
else
pattern=$1
shift
for fname in $*
do
if [ -f $fname]
then
echo DELETING: $pattern FROM:$fname
sed '/' $pattern '/d' $fname

else
echo $fname : FILE NAME NOT FOUND
fi
done
fi
```