

ASSIGNMENT 7.1

Write a shell script to print last twenty commands issued by the user. The user name is supplied as a command line argument to the script (use `bash-history` file)

```
#!/bin/bash  
username = $1  
loc = "/home/$username/.bash-history"  
tail -n 20 $loc
```

Write a shell program which displays the message "welcome" and prints the date when you login to your system.

```
$ vi ~/.bashrc
```

```
echo "Welcome and today's date is $(date)"
```

Accept a string from the terminal and echo a suitable message if it doesn't have atleast 10 characters.

Ans) #!/bin/bash

read -p "Enter string : " str

if [`expr "\$str" : '.*' -lt 10`]

then

echo "The string is short"

else

echo "The string is atleast 10 characters long"

fi

4. Write a shell script which gets executed the moment a user logs in. It should display the message "GOOD MORNING" or "GOOD AFTERNOON" or "GOOD EVENING" depending upon the time at which the user logs in.

Ans) #!/bin/bash

hour = \$(date +%H)

if [\$hour -lt 12]

then

echo "GOOD MORNING"

elif [\$hour -lt 16]

then

echo "GOOD AFTERNOON"

elif [\$hour -lt 20]

then

echo "GOOD EVENING"

fi

\$ vi ~/.bashrc

Week 8

```
#!/bin/bash
```

```
dir = $1
```

```
if [! -d "$dir"]
```

```
then
```

```
    echo "Directory not found"
```

```
    exit 1
```

```
fi
```

```
files = $(find "$dir" -type f -size +100c -printf '%s %p\n' |  
sort -rn)
```

```
echo "$files"
```

```
num = $(echo "$files" | wc -l)
```

```
echo "Total number of files exceeding 100 bytes: $num"
```

```
#!/bin/bash
```

```
sum = 0
```

```
for file in *
```

```
do
```

```
    if [-f "$file"]
```

```
    then
```

```
        echo "$file"
```

```
        size = $(du -b "$file" | cut -f1)
```

```
        ((sum += size))
```

```
    fi
```

```
done
```

```
echo "Total size: $sum bytes"
```

3. echo "Required files are :"
ls | grep ^[aeiou]

4. #!/bin/bash

if test \$# -ne 2

then

echo "Please give two filenames."
exit

fi

if cmp -s "\$1" "\$2"

then

echo "\$1 and \$2 are same"
~~rm~~ "\$2"

else

echo "\$1 and \$2 are not same"

fi

Week 9

```
#!/bin/bash
```

```
if [ $# -eq 0 ]
```

```
then
```

```
    echo "Please give filenames"
```

```
    exit
```

```
fi
```

```
1=$1
```

```
shift
```

```
for var1 in $*
```

```
do
```

```
    for var2 in `cat $1`
```

```
    do
```

```
        echo "Occurrence of $var2 in $var1 is: `grep -c $var2 $1`"
```

```
    done
```

```
done
```

```
#!/bin/bash
```

```
if [ $# -eq 0 ]
```

```
then
```

```
    echo "Please give filenames"
```

```
    exit
```

```
fi
```

```
p="UNIX"
```

```
for file in $*
```

```
do
```

```
    sed "/$p/d" $file | tee ff
```

```
    mv ff $file
```

```
done
```

ASSIGNMENT 9.1

```
#!/bin/bash
```

```
if [ $# -eq 0 ]
```

```
then
```

```
    echo "Please provide a list of login names"
```

```
    exit
```

```
fi
```

```
while [ $# -gt 0 ]
```

```
do
```

```
    login_name = $1
```

```
    shift
```

```
    echo "Information for login name $login_name : "
```

```
    grep -w "$login_name" /etc/passwd
```

```
done
```

```
#!/bin/bash
```

```
read -p "Enter text : " text
```

```
word-count = $(echo $text | wc -w)
```

```
echo "No. of words of different lengths : $word-count"
```

4. #!/bin/bash

if [\$# -eq 0]

then

echo "Please give filename"

exit

fi

echo -e "Word It Count"

cat \$1 | tr -s " " '\n' | sort | uniq -c | sort -r |

awk '{ print \$2 " It" \$1 }'

5. #!/bin/bash

if [\$((\$# % 2)) -ne 0]

then

echo "Error: Odd no. of filenames supplied."

exit 1

fi

for ((i=1; i<= \$#; i+=2));

do

j=\$((i+1))

cp "\${!i}" "\${!j}"

done

ASSIGNMENT 10.1

1. #!/bin/bash

PASSWORD = "defaultpan"

CHANCES = 3

echo -e "\033[1m"

echo "1. Number of users currently logged in"

echo "2. Calendar of current month"

echo "3. Date in the format : dd/mm/yyyy"

echo "4. Quit"

for ((i=1; i<=\$CHANCES; i++))

do

read -sp "Enter password : " pass

echo ""

if ["\$pass" = "\$PASSWORD"]

then

echo "Password is correct."

read -p "Enter choice : " ch

case \$ch in

1) echo "Number of users currently logged in :
\$(who | wc -l)";;

2) cal;

3) echo "Date in the format : \$(date +%d/%m/%Y)";;

4) exit ;;

*) echo "Invalid choice" ;;

esac

exit ;

else

echo "Incorrect password . You have \$((CHANCES - \$i))
attempts left."

fi

done

echo "Maximum number of chances exceeded. Goodbye"

exit