

1.

SHELL SCRIPT:

#!/bin/bash

read -p "Enter a number: " num

echo \$num | rev

root@WPL-31:~/Desktop# chmod +x rev.sh

root@WPL-31:~/Desktop# ./rev.sh

Enter a number: 2345

5432

2.

SHELL SCRIPT:

#!/bin/bash

echo "What absolute directory do you want to count?"

read DIR

cd "\$DIR"

file=0

dir=0

for d in *;

do

if [-d "\$d"]; then

dir=\$((dir+1))

else

file=\$((file+1))

fi

done

echo "Files \$file"

echo "Directories \$dir"

root@WPL-31:~/Desktop# chmod +x dir.sh

root@WPL-31:~/Desktop# ./dir.sh

What absolute directory do you want to count?

Desktop

./dir.sh: line 4: cd: Desktop: No such file or directory

Files 21

Directories 5

root@WPL-31:~/Desktop# ls

148-EX.docx asmt8.txt docx..odt samp shell.txt unix.txt

A3 awk-assignment.pdf fl.txt sampl SSN

a3.txt cse.txt f2.txt sample SSN1

a5 department files sampleprogram SSN2

a5.txt dir.sh rev.sh sample.txt SSN3

3.

SHELL SCRIPT:

#!/bin/bash

read -p "Enter the directory name" dir

sh=0

c=0

txt=0

for d in *;

do

if [-f "\$d"]; then

echo \$d|grep -q ".sh"

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                                0000-3abf-16d2-ec30-e2d.txt
                                if test $? -eq 0 ;then
                                  sh=$((sh+1))
                                fi
                                echo $d|grep -q ".c"
                                if test $? -eq 0 ;then
                                  c=$((c+1))
                                fi
                                echo $d|grep -q ".txt"
                                if test $? -eq 0 ;then
                                  txt=$((txt+1))
                                fi
                                fi
done
echo "The number of shell file are" $sh
echo "The number of c file are" $c
echo "The number of text file are" $txt

root@WPL-31:~/Desktop# chmod +x dirc.sh
root@WPL-31:~/Desktop# ./dirc.sh
Enter the directory nameDesktop
The number of shell file are 7
The number of c file are 5
The number of text file are 9
root@WPL-31:~/Desktop# ls
148-EX.docx      calc.sh      docx..odt     samp          SSN1
A3               check.sh     fl.txt        sampl         SSN2
a3.txt           count.sh     f2.txt        sample        SSN3
a5              cse.txt      files         sampleprogram unix.txt
a5.txt           department   password.sh   sample.txt
asmt8.txt        dirc.sh      rev.sh        shell.txt
awk-assignment.pdf dir.sh       sammp         SSN
*****

```

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4.
SHELL SCRIPT:
#!/bin/bash
read -p "ENTER THE FILE NAME:" filename
read -p "Enter the word to be searched for:" word

count=0;
for i in `cat $filename`;
do if [ $i == "$word" ];then
    count=$((count+1))
fi
done;
echo "The number of times the given word occurs in the file is: " $count;

```

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root@WPL-31:~/Desktop# cat sammp
hello hello hello is the file whose words are required to be checked.hello and
bye.
root@WPL-31:~/Desktop# ./count.sh
ENTER THE FILE NAME:sammp
Enter the word to be searched for:hello
The number of times the given word occurs in the file is: 3
*****

```

5.

SHELL SCRIPT:

#!/bin/bash

sum=0

i="y"

echo " Enter one no."

read n1

echo "Enter second no."

read n2

while [\$i = "y"]

do

echo "1.Addition"

echo "2.Subtraction"

echo "3.Multiplication"

echo "4.Division"

echo "Enter your choice"

read ch

case \$ch in

1)sum=`expr \$n1 + \$n2`

echo "Sum ="\$sum;;

2)sum=`expr \$n1 - \$n2`

echo "Sub ="\$sum;;

3)sum=`expr \$n1 * \$n2`

echo "Mul ="\$sum;;

4)sum=`expr \$n1 / \$n2`

echo "Div ="\$sum;;

*)echo "Invalid choice";;

esac

echo "Do u want to continue ?"

read i

if [\$i != "y"]

then

exit

fi

done

root@WPL-31:~/Desktop# chmod +x calc.sh

root@WPL-31:~/Desktop# ./calc.sh

Enter one no.

34

Enter second no.

67

1.Addition

2.Subtraction

3.Multiplication

4.Division

Enter your choice

3

Mul = 2278

Do u want to continue ?

y

1.Addition

2.Subtraction

3.Multiplication

4.Division

Enter your choice

```

1
Sum =101
Do u want to continue ?
y
1.Addition
2.Subtraction
3.Multiplication
4.Division
Enter your choice
2
Sub = -33
Do u want to continue ?
y
1.Addition
2.Subtraction
3.Multiplication
4.Division
Enter your choice
4
Div = 0
Do u want to continue ?
n
root@WPL-31:~/Desktop#
*****
6.
SHELL SCRIPT:
#!/bin/bash
read -p "Enter the value to be checked" number

if [[ $number =~ ^[+-]?[0-9]*$ ]];then
echo Number is integer

elif [[ $number =~ ^[+-]?[0-9]+\.[0-9]*$ ]];then
echo Number is float

else
echo It is a string
fi

root@WPL-31:~/Desktop# chmod +x check.sh
root@WPL-31:~/Desktop# ./check.sh
Enter the value to be checked23.4
"Number is float "
root@WPL-31:~/Desktop# ./check.sh
Enter the value to be checked23
Number is integer
root@WPL-31:~/Desktop# ./check.sh
Enter the value to be checkedhello
It is a string
root@WPL-31:~/Desktop# ./check.sh
Enter the value to be checked45.89
Number is float
*****
7.
SHELL SCRIPT:
#!/bin/bash

```

0000-3abf-16d2-ec30-e2d.txt

```
echo "enter the password"
read password
len="${#password}"
if test $len -ge 8 ; then
    echo "$password" | grep -q [0-9]
    if test $? -eq 0 ; then
        echo "$password" | grep -q [A-Z]
        if test $? -eq 0 ; then
            echo "$password" | grep -q [a-z]
            if test $? -eq 0 ; then
                echo "Strong password"
            else
                echo "weak password include lower case char"
            fi
        else
            echo "weak password include capital char"
        fi
    else
        echo "please include the numbers in password it is weak password"
    fi
else
    echo "password lenght should be greater than or equal 8 hence weak password"
fi
```

```
root@WPL-31:~/Desktop# chmod +x passowrd.sh
chmod: cannot access 'passowrd.sh': No such file or directory
root@WPL-31:~/Desktop# chmod +x password.sh
root@WPL-31:~/Desktop# ./password.sh
enter the password
hello123
weak password include capital char
root@WPL-31:~/Desktop# ./password.sh
enter the password
```

0000-3abf-16d2-ec30-e2d.txt

Helool2

password lenght should be greater than or equal 8 hence weak password

root@WPL-31:~/Desktop# ./password.sh

enter the password

Helloworld123456

Strong password

root@WPL-31:~/Desktop# ./password.sh

enter the password

helloworldweeth

please include the numbers in password it is weak password