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//S Harshini
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/*1. Write a shell script to implement simple calculator with simple operations (add, subtract, multiplication, division) using else-if ladder. Read the required values using prompt option. */ cs1058@splc32:~/Desktop\$ cat script.sh echo "enter two values and choose 1.add 2.subtract 3.multiply 4.divide" read x read y read c if [[\$c = 1]]then echo "sum "\$((x+y))elif [[\$c = 2]] then echo "diff "\$((x-y)) elif [[\$c = 3]] then echo "product "\$((x*y)) else echo "quotient "\$((x/y)) cs1058@splc32:~/Desktop\$ chmod +x script.sh cs1058@splc32:~/Desktop\$./script.sh enter two values and choose 1.add 2.subtract 3.multiply 4.divide 2 3 1 sum 5 cs1058@splc32:~/Desktop\$./script.sh enter two values and choose 1.add 2.subtract 3.multiply 4.divide 5 4 2 diff 1 cs1058@splc32:~/Desktop\$./script.sh enter two values and choose 1.add 2.subtract 3.multiply 4.divide 6 7 3 product 42

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cs1058@splc32:~/Desktop$ ./script.sh
enter two values and choose 1.add 2.subtract 3.multiply 4.divide
3
4
quotient 3
/*2.Write a shell script to find the area of square, rectangle and triangle using
switch case. Read the required values using prompt option.*/
cs1058@splc32:~/Desktop$ cat script.sh
echo "enter choice 1.square 2. rectangle 3. triangle"
read c
case $c in
1)
read a
echo "area of square "$((a*a))
2)
read a
read b
echo "area of rect "$((a*b))
3)
read b
read h
echo "area of triangle "$(((b*h/2))
*)
esac
cs1058@splc32:~/Desktop$ ./script.sh
enter choice 1.square 2. rectangle 3. triangle
1
2
area of square 4
cs1058@splc32:~/Desktop$ ./script.sh
enter choice 1.square 2. rectangle 3. triangle
2
3
area of rect 12
```

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/*3.Write a shell script to print the current date and time
Hint:
now="$(date)"
echo $now
day="$(date +'%d')"
echo $day
month="$(date +'%m')"
echo $month
year="$(date +'%Y')"
echo $year.*/
cs1058@splc32:~/Desktop$./script.sh
day 11
month 09
year 2019.
cs1058@splc32:~/Desktop$ cat script.sh
day="$(date +'%d')"
echo day $day
month="$(date +'%m')"
echo month $month
year="$(date +'%Y')"
echo year $year.
/*4.Write a shell script to find the number of files and directories in the current
working directory.
Hint:
echo "Hello World!"
var="$(ls)"
echo $var
for file in "$(ls)"; do
echo $file
done*/
cs1058@splc32:~/Desktop$ cat script.sh
var="$(ls)"
#echo $var
count=0
for file in $(ls); do
echo $file
((count++))
```

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done
echo "Number of files/directories is $count"
cs1058@spl1:~/Desktop$ chmod +x script.sh
cs1058@spl1:~/Desktop$ ./script.sh
058-harshini-t9.docx
File1
File2
File3
File4
File5
File6
File7
generics
script.sh
Number of files/directories is 10
/*5.Write a shell script to find the number of files and directories given the date
Hint
c=0
day1="$(ls -l |cut -c31-33)"
echo $day1
day2="$(date +'%d')"
echo $day2
if [day1 = day2];
then
echo $((c+1))
else
echo "wrong:"
fi*/
cs1058@splc32:~/Desktop$ cat script.sh
read -p d
count=0
day="$(Is -I |cut -c42-44)"
for i in $day;
do
if [$i = $d];
then
((count++))
fi
done
```

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echo "Total number $count"
cs1058@splc32:~/Desktop$ chmod u+x script.sh
cs1058@spl1:~/Desktop$ ./script.sh
d11
Total number 0
/*6.Create the following files and change the permissions specified
File1 701
File2 400
File3 300
File4 676
File5 045
File6 177
File7 234
File8 507
Write a shell script to find the number of readable, writable and executable files*/
cs1058@splc32:~/Desktop$ cat > File1
This is File1
^C
cs1058@splc32:~/Desktop$ cat > File2
This is File2
^C
cs1058@splc32:~/Desktop$ cat > File3
This is File3
^C
cs1058@splc32:~/Desktop$ cat > File4
This is File4
^C
cs1058@splc32:~/Desktop$ cat > File5
This is File5
^C
cs1058@splc32:~/Desktop$ cat > File6
This is File6
^C
cs1058@splc32:~/Desktop$ cat > File7
This is File7
cs1058@splc32:~/Desktop$ cat > File8
This is File8
^C
cs1058@spl1:~/Desktop$ Is -I *
```

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-rw-rw-r-- 1 cs1058 cs1058
                           0 Sep 18 09:28 058-harshini-t9.docx
-rw-rw-r-- 1 cs1058 cs1058 0 Sep 18 09:19 File1
-rw-rw-r-- 1 cs1058 cs1058 0 Sep 18 09:19 File2
-rw-rw-r-- 1 cs1058 cs1058 0 Sep 18 09:19 File3
-rw-rw-r-- 1 cs1058 cs1058 0 Sep 18 09:19 File4
-rw-rw-r-- 1 cs1058 cs1058 0 Sep 18 09:19 File5
-rw-rw-r-- 1 cs1058 cs1058 0 Sep 18 09:19 File6
-rw-rw-r-- 1 cs1058 cs1058 0 Sep 18 09:20 File7
-rw-rw-r-- 1 cs1058 cs1058 1850 Sep 7 08:18 generics
-rwxrwxr-x 1 cs1058 cs1058 284 Sep 18 09:35 script.sh
cs1058@spl1:~/Desktop$ chmod u+x script.sh
cs1058@spl1:~/Desktop$ ./script.sh
Number of readable files is 10
Number of writable files is 10
Number of executable files is 1
cs1058@spl1:~/Desktop$ chmod 701 File1
cs1058@spl1:~/Desktop$ chmod 400 File2
cs1058@spl1:~/Desktop$ chmod 300 File3
cs1058@spl1:~/Desktop$ chmod 676 File4
cs1058@spl1:~/Desktop$ chmod 045 File5
cs1058@spl1:~/Desktop$ chmod 177 File6
cs1058@spl1:~/Desktop$ chmod 234 File7
cs1058@spl1:~/Desktop$ ./script.sh
Number of readable files is 6
Number of writable files is 7
Number of executable files is 4
cs1058@spl1:~/Desktop$ Is -I *
-rw-rw-r-- 1 cs1058 cs1058
                           0 Sep 18 09:28 058-harshini-t9.docx
-rwx----x 1 cs1058 cs1058
                           0 Sep 18 09:19 File1
-r----- 1 cs1058 cs1058 0 Sep 18 09:19 File2
--wx----- 1 cs1058 cs1058 0 Sep 18 09:19 File3
-rw-rwxrw- 1 cs1058 cs1058 0 Sep 18 09:19 File4
----r--r-x 1 cs1058 cs1058 0 Sep 18 09:19 File5
---xrwxrwx 1 cs1058 cs1058 0 Sep 18 09:19 File6
--w--wxr-- 1 cs1058 cs1058 0 Sep 18 09:20 File7
-rw-rw-r-- 1 cs1058 cs1058 1850 Sep 7 08:18 generics
-rwxrwxr-x 1 cs1058 cs1058 284 Sep 18 09:35 script.sh
cs1058@splc32:~/Desktop$ cat script.sh
var=$(ls)
rc=0
wc=0
xc=0
```

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for file in $var;
do

if [ -r $file ];
then rc=$((rc+1))
fi

if [ -w $file ];
then wc=$((wc+1))
fi

if [ -x $file ];
then xc=$((xc+1))
fi

done
echo "Number of readable files is $rc"
echo "Number of writable files is $wc"
echo "Number of executable files is $xc"
```