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//M Gavathri
/*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.
cs1050@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))
cs1050@splc32:~/Desktop$ chmod +x script.sh
cs1050@splc32:~/Desktop$ ./script.sh
enter two values and choose 1.add 2.subtract 3.multiply 4.divide
3
1
sum 5
cs1050@splc32:~/Desktop$ ./script.sh
enter two values and choose 1.add 2.subtract 3.multiply 4.divide
4
2
diff 1
cs1050@splc32:~/Desktop$ ./script.sh
enter two values and choose 1.add 2.subtract 3.multiply 4.divide
7
3
product 42
cs1050@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.*/
cs1050@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)
```

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read a
read b
echo "area of rect "$((a*b))
3)
read b
read h
echo "area of triangle "\$(((b*h/2))
;;
*)
esac
cs1050@splc32:~/Desktop$ ./script.sh
enter choice 1.square 2. rectangle 3. triangle
1
2
area of square 4
cs1050@splc32:~/Desktop$ ./script.sh
enter choice 1.square 2. rectangle 3. triangle
3
4
area of rect 12
/*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 $year.*/
cs1050@splc32:~/Desktop$./script.sh
day 11
month 09
year 2019.
cs1050@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 $file
done*/
cs1050@splc32:~/Desktop$ cat script.sh
var="$(ls)"
#echo $var
count=0
```

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for file in $(ls); do
echo $file
((count++))
done
echo "Number of files/directories is $count"
cs1050@spl1:~/Desktop$ chmod +x script.sh
cs1050@spl1:~/Desktop$ ./script.sh
050-gayathri-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 $((c+1))
else
echo "wrong:"
fi*/
cs1050@splc32:~/Desktop$ cat script.sh
read -p d
count=0
day="$(ls -l |cut -c42-44)"
for i in $day;
do
if [ $i = $d ];
then
((count++))
fi
done
echo "Total number $count"
cs1050@splc32:~/Desktop$ chmod u+x script.sh
cs1050@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
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files*/
cs1050@splc32:~/Desktop$ cat > File1
This is File1
cs1050@splc32:~/Desktop$ cat > File2
This is File2
۸C
cs1050@splc32:~/Desktop$ cat > File3
This is File3
۸C
cs1050@splc32:~/Desktop$ cat > File4
This is File4
۸C
cs1050@splc32:~/Desktop$ cat > File5
This is File5
٧C
cs1050@splc32:~/Desktop$ cat > File6
This is File6
^C
cs1050@splc32:~/Desktop$ cat > File7
This is File7
cs1050@splc32:~/Desktop$ cat > File8
This is File8
۸C
cs1050@spl1:~/Desktop$ ls -l *
-rw-rw-r--1cs1050cs1050 0Sep 18 09:28 050 -gayathri-t9.docx
                                0 Sep 18 09:19 File1
-rw-rw-r-- 1 cs1050 cs1050
-rw-rw-r-- 1 cs1050 cs1050
                                0 Sep 18 09:19 File2
-rw-rw-r-- 1 cs1050 cs1050
                                0 Sep 18 09:19 File3
-rw-rw-r-- 1 cs1050 cs1050
                                0 Sep 18 09:19 File4
-rw-rw-r-- 1 cs1050 cs1050
                                0 Sep 18 09:19 File5
-rw-rw-r-- 1 cs1050 cs1050
                               0 Sep 18 09:19 File6
-rw-rw-r-- 1 cs1050 cs1050
                               0 Sep 18 09:20 File7
-rw-rw-r-- 1 cs1050 cs1050 1850 Sep 7 08:18 generics
-rwxrwxr-x 1 cs1050 cs1050 284 Sep 18 09:35 script.sh
cs1050@spl1:~/Desktop$ chmod u+x script.sh
cs1050@spl1:~/Desktop$ ./script.sh
Number of readable files is 10
Number of writable files is 10
Number of executable files is 1
cs1050@spl1:~/Desktop$ chmod 701 File1
cs1050@spl1:~/Desktop$ chmod 400 File2
cs1050@spl1:~/Desktop$ chmod 300 File3
cs1050@spl1:~/Desktop$ chmod 676 File4
cs1050@spl1:~/Desktop$ chmod 045 File5
cs1050@spl1:~/Desktop$ chmod 177 File6
cs1050@spl1:~/Desktop$ chmod 234 File7
cs1050@spl1:~/Desktop$ ./script.sh
Number of readable files is 6
Number of writable files is 7
Number of executable files is 4
cs1050@spl1:~/Desktop$ ls -l * -rw-rw-r--1cs1050cs1050 0Sep 18 09:28 050-gayathri-t9.docx
                                0 Sep 18 09:19 File1
-rwx----x 1 cs1050 cs1050
-r---- 1 cs1050 cs1050
                                0 Sep 18 09:19 File2
--wx----- 1 cs1050 cs1050
                                0 Sep 18 09:19 File3
-rw-rwxrw- 1 cs1050 cs1050
                                0 Sep 18 09:19 File4
----r--x 1 cs1050 cs1050
                                0 Sep 18 09:19 File5
---xrwxrwx 1 cs1050 cs1050
                                0 Sep 18 09:19 File6
--w--wxr-- 1 cs1050 cs1050
                                0 Sep 18 09:20 File7
-rw-rw-r-- 1 cs1050 cs1050 1850 Sep 7 08:18 generics
-rwxrwxr-x 1 cs1050 cs1050 284 Sep 18 09:35 script.sh
```

```
cs1050@splc32:~/Desktop$ cat script.sh
var=$(ls)
rc=0
wc=0
xc=0
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"
```