LAB-6

This is to familiarize the basics of shell scripting

1. How to write a shell script that will add two no's', which are supplied as command line argument, and if this two no's are not given show error and its usage

```
File   Actions   Edit   View   Help

gurusaran@guru:~/Desktop/ECS/Shell Scripting$ ls
add.sh    expr.sh       find.sh  hello.sh   let.sh    loop.sh  numbers.sh     print.sh    sample.sh
array.sh  expr.sh.save  func.sh  ifelse.sh  login.sh  name.sh  parantheses.sh reverse.sh
gurusaran@guru:~/Desktop/ECS/Shell Scripting$ bash add.sh
Usage -  add.sh x y where x and y are two numbers
gurusaran@guru:~/Desktop/ECS/Shell Scripting$ bash add.sh 3 5
sum  of 3 and 5 is 8
gurusaran@guru:~/Desktop/ECS/Shell Scripting$ cat add.sh
#!/bin/bash
if [ $# -ne 2 ]
then
echo "Usage -  $0 x y where x and y are two numbers"
exit 1
fi
add=$(($1 + $2))
echo "sum  of $1 and $2 is $add"
gurusaran@guru:~/Desktop/ECS/Shell Scripting$
```

2. Write script to print given number in reverse order

```
File   Actions   Edit   View   Help

gurusaran@guru:~/Desktop/ECS/Shell Scripting$ bash reverse.sh 234
reverse no is 432
gurusaran@guru:~/Desktop/ECS/Shell Scripting$ cat reverse.sh

#!/bin/bash
n=$1
rev=0
tmp=0

while [ $n -gt 0 ]
do
tmp=`expr $n % 10`
rev=`expr $rev \* 10 + $tmp`
n=`expr $n / 10`
done
echo "reverse no is $rev"
gurusaran@guru:~/Desktop/ECS/Shell Scripting$
```

3. Write script to print no's as 5,4,3,2,1 using while loop

```
gurusaran@guru:~/Desktop/ECS/Shell Scripting$ bash print.sh
5
4
3
2
1
gurusaran@guru:~/Desktop/ECS/Shell Scripting$ cat print.sh
#!/bin/bash
n=5
while test  $n ≠ 0
do
echo "$n"
n=$(($n-1))
done
gurusaran@guru:~/Desktop/ECS/Shell Scripting$ 
```

4. A script to find the files within a given date range

```
gurusaran@guru:~/Desktop/ECS/Shell Scripting$ bash find.sh
./array.sh
./print.sh
./expr.sh
./find.sh
./expr.sh.save
./add.sh
./ifelse.sh
./parantheses.sh
./.array.sh.swo
./func.sh
./.find1.sh.swp
./loop.sh
./let.sh
gurusaran@guru:~/Desktop/ECS/Shell Scripting$ cat find.sh
#!/bi/bash
find . -type f -newermt 2020-11-02 ! -newermt 2020-11-04

gurusaran@guru:~/Desktop/ECS/Shell Scripting$ 
```

5. Print content of text files in a folder (read name of the folder from user)


```
gurusaran@guru:~/Desktop/ECS/Shell Scripting$ ls
add.sh     expr.sh        find.sh   hello.sh   let.sh     loop.sh   numbers.sh        print.sh     sample.sh
array.sh   expr.sh.save   func.sh   ifelse.sh  login.sh   name.sh   parantheses.sh    reverse.sh
gurusaran@guru:~/Desktop/ECS/Shell Scripting$ cat *
#!/bin/bash
if [ $# -ne 2 ]
then
echo "Usage -  $0 x y where x and y are two numbers"
exit 1
fi
add=$(($1 + $2))
echo "sum  of $1 and $2 is $add"
#!/bin/bash
echo Enter the elements
read -a list
echo enter the element to search
read x
for i in "${list[@]}"
do
if [ $i = $x ];
then
flag=0
break
else
flag=1
fi
done
if [ $flag = 0 ]
then
echo The element is present
else
echo The element is not present
fi

#!/bin/bash
# Basic arithmetic using expr

expr 5 + 4
expr "5 + 4"
expr 5+4
expr 5 \* 2
expr 11 % 2
a=$( expr 10 - 3 )
echo $a # 7
#!/bin/bash
# Basic arithmetic using expr

expr 5 + 4
```

Printing all the contents present in the file