```
1. Write a shell script that adds an extension ".new" to all the files in
the directory.
      #! /bin/bash
Ans.)
           #First loop remove all the current extension of files
                for i in *; do
                    if [ -f $i ]; then
                       mv $i ${i%.*}
                            fi
                              done
           #Second loop Add '.new' to all files
                  for i in *; do
                     if [ -f $i ]; then
                        mv $i $i.new
                           fi
                              done
2. Delete file which has special character "-", "--", "*", "$"
Ans.) #!/bin/bash
            for i in find . -name '*[-*$]*'; do
                 rm -f $i
                    done
3.) write a shell script that take two input numbers from user at runtime
and display arithematic operation on that number, find out max & min
number from them find weather that numbers negative or positive?
Ans.) #!/bin/bash
          echo "First Number :"
               read a
         echo "Second Number :"
              read b
         MinMax() {
     echo "-----
     if [ $a -gt $b ] ; then
     echo "$a is Maximum"
     echo "$b is Minimum"
          else
     echo "$b is Maximum"
     echo "$a is Minimum"
    echo "-----
}
NegativePositive(){
     if [ $a -gt 0 ] ; then
          echo "$a is Positive"
     else
         echo "$a is Negative"
     fi
     if [ $b -gt 0 ] ; then
         echo "$b is Positive"
     else
```

echo "\$b is Negative"

```
fi
}
MinMax
NegativePositive
echo "[Choose Operation to perform]"
echo "1) Addition"
echo "2) Substraction"
echo "3) Division"
echo "4) Multiplication"
echo "[ CTR+C to Stop ]"
echo "-----
____"
while : ; do
read ops
case $ops in
    1) echo "Addition" : $((a+b)) ;;
    2) echo "Substraction" : $((a-b)) ;;
    3) echo "Division" : $((a/b)) ;;
    4) echo "Multiplication" : $((a*b)) ;;
    *) echo "This is not a choise" ;;
esac
done
4.) . Write a shell script that take one input number from user and print
1 to n number using three loops (For, while, until). (N = entered number)
Ans.)
#!/bin/bash
echo "Enter Number :"
read a
While(){
  echo "-----
    i=1 ;
    while [ $i -lt $1 ] ; do
       echo "$i"
        i=\$((\$i + 1))
   echo "-----
}
Until() {
    i=1;
    until [ $i -gt $1 ] ; do
        echo "$i"
        i=\$((\$i + 1))
    done
    echo "-----
}
For() {
```

```
for i in `seq 1 $1 `; do
         echo "$i"
     done
    echo "-----
____"
echo "[Choose Operation to perform]"
echo "1) While "
echo "2) Until "
echo "3) For "
echo "[ CTR+C to Stop ]"
echo "-----
while : ; do
read ops
case $ops in
     1) echo "Using While Loop:" ; While $a ;;
     2) echo "Using Until:" ; Until $a ;;
     3) echo "Using For Loop:" ; For $a ;;
     *) echo "This is not a choise" ;;
esac
done
5.) Write a shell script to display the last updated file of the newest
file in a directory?
Ans.)
             #!/bin/bash
            for i in $(ls -t); do
     if [ -f $i ] ; then
              echo "Last updated file : In [ $(pwd) ]"
                   echo $i
                      break
                               fi
                                        done
6.) Write a shell script to get the total count of the word "Linux" in
all the ".txt" files and also across files present in subdirectories?
Ans.)
                  #!/bin/bash
                  echo "Total \"Linux\" Words in current directory and
Its subdirectories"
                        find . -name "*.txt" | xargs grep -o -i
"Linux" | wc -l
7.) Write a shell script that copy all the directories, subdirectories
and files from one location to
another specific location?
Ans.)
            #!/bin/bash
              k = $1
              read -p "enter destination path" des
          echo "$des"
          for file in `ls $1/*`
```

```
do
    echo "$file"
    cp -r $file $des
    done
```

- 8. Display specific number of lines as follow:
- Display first and last 10 lines of file contains
   Ans.)

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

```
k=$1
echo "$k"
out="$(cat $k | head)"
echo "$out"
```

- 2. Display line no. 3 to 8 from file contains.
- #!/bin/bash

```
k=$1
echo "$k"
out="$(head -8 $k | tail -5)"
echo "$out"
```

- 3. Display 7 lines and start from second last line in reverse manner.
- #!/bin/bash

```
k=$1
echo "$k"
out="$(tac $k | head -8 | tail -7)"
echo "$out"
```

- 9. Perform following task:
- 2. Login as one user and then create new file

su username
touch filename

3. Send created file from one user to another user
 sudo cp /home/USER1/FNAME /home/USER2/FNAME && sudo chown
USER2:USER2 /home/USER2/FNAME

(Will copy the file from USER1 to USER2, and then change the owner of the copy in  $\mbox{\sc home}/\mbox{\sc USER2}$ 

)

4. Login as second user and copy that file from user2 to user1(in same system)

sudo cp /home/USER2/FNAME /home/USER2/FNAME && sudo chown USER1:USER1 /home/USER1/FNAME

(Will copy the file from USER2 to USER1, and then change the owner of the copy in  $\mbox{\sc home}/\mbox{\sc USER2}$ 

10. Ex. 10 Task to find all files from folder where file contains string 'abc'

#!/bin/bash

```
var="sdgs sgdshjdg gfdfj"
select choice in $var ; do
echo "$choice"
done
```