**DirectoryCreate.sh**

mkdir -p five/dir5 five/dir4 five/dir3 five/dir2 five/dir1

touch five/dir1/file1 five/dir1/file2 five/dir1/file3 five/dir1/file4 five/dir2/file1 five/dir2/file2 five/dir2/file3 five/dir2/file4 five/dir3/file1 five/dir3/file2 five/dir3/file3 five/dir3/file4 five/dir4/file1 five/dir4/file2 five/dir4/file3 five/dir4/file4 five/dir5/file1 five/dir5/file2 five/dir5/file3 five/dir5/file4

echo "1" | tee -a five/dir1/file1 five/dir2/file1 five/dir3/file1 five/dir4/file1 five/dir5/file1

echo -e "2\n2" | tee -a five/dir1/file2 five/dir2/file2 five/dir3/file2 five/dir4/file2 five/dir5/file2

echo -e "3\n3\n3" | tee -a five/dir1/file3 five/dir2/file3 five/dir3/file3 five/dir4/file3 five/dir5/file3

echo -e "4\n4\n4\n4" | tee -a five/dir1/file4 five/dir2/file4 five/dir3/file4 five/dir4/file4 five/dir5/file4

**overtime\_pay.sh**

#!/bin/bash

workinghours=40

echo "Enter Name of employee"

read employee

echo "Enter working hours of employee"

read workinghrs

if [ $workinghrs -gt $workinghours ]

then

overtime=$(echo "$workinghrs - $workinghours" | bc -l)

extrapay=$(echo "$overtime \* 12" | bc -l)

echo "The Overtime pay for $employee is $extrapay"

else

echo "No overtime pay, as $employee did not worked for more than 40 hours"

fi

**password.sh**

!/bin/bash

echo "Enter a strong password"

read pass

len="${#pass}"

if test $len -ge 8; then

echo "$pass" | grep -q [0-9]

if test $? -eq o; then

echo "$pass" | grep -q [A-Z]

if test $? -eq o; then

echo "$pass" | grep -q [a-z]

if test $? -eq o ; then

echo "Strong password"

else

echo "Add lower case letter, it's a weak password"

fi

else

echo "Add capital letter, it's a weak password"

fi

else

echo "Add numbers, it's a weak password"

fi

else

echo "password length less than 8, it's a weak password"

fi

**calculator.sh**

#!/bin/bash

echo "Calculator"

printf "Select operation to be performed\n1. Add\n2. Sub\n3. Multiply\n4. Divide\n"

read operation

echo "Enter first number"

read n1

echo "Enter second number"

read n2

addition () {

printf "Sum of $1 and $2 is: "

a=$(echo "$1 + $2" | bc -l)

echo $a

}

subtraction () {

echo "Sub of $1 and $2 is: "

a=$(echo "$1 - $2" | bc -l)

echo $a

}

multiplication () {

echo " multiplication of $1 and $2 is:"

a=$(echo "$1 \* $2" | bc -l)

echo $a

}

divide(){

echo "Result of divide of $1 and $2 is:"

a=$(echo "$1 / $2" | bc -l)

echo $a

}

if [[ "$operation" = "1" ]]

then

addition $n1 $n2

exit 0

elif [[ "$operation" = "2" ]]

then

subtraction $n1 $n2

exit 0

elif [[ "$operation" = "3" ]]

then

multiplication $n1 $n2

exit 0

elif [[ "$operation" = "4" ]]

then

divide $n1 $n2

exit 0

else

echo "Invalid"

echo "Select from the above operations"

exit 1

fi

**countfile.sh**

#!/bin/bash

echo "Enter directory"

read directory

cd $directory

printf "The result of count in files are \n\n"

ls -q -U | awk -F . '{print $NF}' | sort | uniq -c| awk '{print $2,$1}'