**#1 – First program**

echo "hai"

**#2 Employee - OT Wages Calculation**

clear

echo "Enter Name"

read name

echo "Enter the hours worked"

read hour

if test $hour -gt 10

then

c=`expr $hour - 10`

echo "over time worked: $c"

f=`expr $c \\* 10`

echo "Wages given: $f"

else

echo "No over Time"

fi

**#3 Simple Calculator**

clear

echo "Enter two numbers"

read a

read b

echo "The First Number: $a"

echo "The Second Number: $b"

val=`expr $a + $b`

echo "a + b : $val"

val=`expr $a - $b`

echo "a - b : $val"

val=`expr $a \\* $b`

echo "a \* b : $val"

val=`expr $b / $a`

echo "b / a : $val"

val=`expr $b % $a`

echo "b % a : $val"

if [ $a == $b ]

then

echo "a is equal to b"

fi

if [ $a != $b ]

then

echo "a is not equal to b"

fi

**#4 Gp and Np calculation**

clear

echo "Enter the basic pay"

read bp

hra=`expr $bp / 100 \\* 20`

expr "The HRA is $hra"

da=`expr $bp / 100 \\* 40`

expr "The HRA is $da"

pf=`expr $bp / 100 \\* 10`

expr "The HRA is $pf"

gp=`expr $bp + $hra + $da`

expr "The GP is $gp"

np=`expr $gp - $pf`

expr "The NP is $np"

**#5 Command line arguments**

clear

if test $# -eq 0

then echo "U have not entered any arguments"

exit

fi

echo "No of argument: $#"

echo "The arguments are: $\*"

echo "The First Argument: $1"

echo "The Second Argument: $2"

**#6 Reading Employee Records - Menu Driven.**

clear

echo "Enter the number of records"

read n

while true

do

clear

cat << END

MENU OPTIONS

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1. First $n records

2. Last $n records

3. Records from $n

END

echo "Enter your choice"

read ch

case "$ch" in

1)head -$n emp;;

2)tail -$n emp;;

3)tail -n+$n emp;;

esac

echo "Do you want to continue (y/n)"

read ans

case "$ans" in

y);;

\*)exit;;

esac

done

**#7 to filter records from a files with the word 'Sales' in the column 3**

clear

echo "Enter the file name"

read fname

awk -F"|" '$3=="sales" {printf "%d\t%s\t%s\t%d\n",$1,$2,$3,$4}' emp

**#8 To convert kilo meter to meters and inches**

clear

echo "Enter the City Name 1:"

read name1

echo "Enter the city name 2:"

read name2

echo "Enter the distance between $name1 and $name2 in KM:"

read dis

echo "Distance in meters :" `expr $dis \\* 1000`

echo "Distance in centimeters :" `expr $dis \\* 100000`

**#9 to find sum of digits of a number**

clear

echo -e "\n\t Enter the Five Digit Number"

read num

sum=0

while test $num -ne 0

do

sum=`expr $sum + $num % 10`

num=`expr $num / 10`

done

echo -e "\n\t Sum of the Digits:$sum"