Shell Programming

Practical-3

1. Write a shell script to calculate the loss percentage of an article. Scan the cost price and selling price

Solution:

1. Read CP and SP
2. Ans=CP-SP*100/CP
3. Print Ans

Practical-3(Exercise-1)

- echo Enter Cost Price
- read cp
- echo Enter Selling price
- read sp
- lp=`expr $cp - $sp`
- p1=`expr $lp \* 100`
- p2=`expr $p1 / $cp`
- echo Loss in percentage is $p2

Practical-3

2. write a shell script to accept numbers below 50 and to display the square of each. This should continue as long as the user wishes.

Solution:

```
While(1)
do
Read no
While(no >50)
Do
Enter proper number
Done
Square=no*no
Print square
Read choice ch
If ch=n or N
Exit
If
done
```

Practical-3(Exercise-2)

- while [1]
- do
- echo enter number less than 50
- read no
- while [$no -gt 50]
- do
- echo please enter proper number
- read no
- done

- sqr=`expr $no \* $no`
- echo square of number is $sqr
- echo do you want to continue, y to continue
- read ch
- if [$ch = n -o $ch = N]
- then
- exit
- fi
- done

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3. Write a shell script to display $50

Solution:

1. echo displaying \$50

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4. Write a shell script to check whether the scanned string is found in a file or not.

   Display appropriate message.

- **Solution:**
- echo enter string to be searched for
- read str
- echo enter file to be searched
- read file_name
- **f1=`grep $str $file_name`**
- **if [$? -eq 0]**
- then
- echo Entered string $str is present in file $file_Name
- else
- echo Entered string $str is not present in file $file_name
- fi

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5. Write a shell script, which scans the name of the command and executes it.

- **Solution:**
  - echo enter the command you wish to be executed
  - read com
  - $com

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6. Write a shell script which displays Febuary if we enter Feb, Febu, Febua or Febuar

- **Solution:**
    - echo enter string
    - read str
    - case $str in
    - Feb|Febu|Febua|Febuar)echo January;;
    - *)echo invalid;;
    - esac

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6. Write a shell script which displays Febuary if we enter Feb, Febu, Febua or Febuary

Practical-3

7. Write a shell script to generate Fibonacci series.

- **Solution:**

```
echo enter the number of terms
read no
a=1
b=1
echo $a
echo $b
i=1
temp=`expr $no - 2`
while [ $i -lt `expr $temp + 1` ]
do
c=`expr $a + $b`
echo $c
a=$b
b=$c
i=`expr $i + 1`
done
```