Shell Scripting Examples

\$\$ => It holds user parent j=\ echo \$i | cut =d"," -f 3' shell process id. echo \$1 | eut -d"," -f 4 \$vi hello if [\$]-ge 5000 -a \$k -eq 10] for i in \$* emp1 echo -n "\$i " ·fi done done :wq Command line Arguments \$chmod 755 hello (or) Positional Parameters \$./hello Tecno soft Solutions * At the time of execution of shell \$vi calc script, if user passes any if [\$# -eq 3] arguments known as Command then line Arguments (or) Positional c='echo \$1 \$2 \$3 | bc' **Parameters** echo \$c else 🤏 echo "In Valid no of arguments" * The Special variables holds positional parameters values. The special variables are wg 755 calc \$0,\$1,\$2,\$3,\$4,\$5,\$6,\$7,\$8,\$9,\$# ,\$*,\$#,\$?,\$\$ \$ /calc 10 + 4 \$0 => Name of the Program \$sh calc 10 + 4\$1 => 1st parameter value. \$1 => 1 parameter \$2 => 2nd parameter \$vi checkuser if [\$# -eq 1] \$3 => 3rd parameter value then \$4 => 4th parameter value if who | grep \$1> /dev/null \$5 => 5th parameter value \$6 => 6th parameter value echo "Logged In" \$7 => 7th parameter value \$8 => 8th parameter value echo "not Logged In" \$9 => 9th parameter value fi \$# => Counts no of echo "Invalid no of arguments" arguments \$* => all parameter values \$@ => all parameter values but each and every :wq parameter encloses within \$chmod 755 checkuser \$./checkuser tecno double quotes. \$? => It holds last executed command status, If the command executed successfully it holds 0(zero)

#109, Annapurna Block, Aditya Enclave, Ameerpet, Hyderabad.

otherwise non-zero value.

D write a shell script to

insert data into oracle

emp table.

\$vir az.sh \(\)

clear

x=101

y="Hari"

\$91plus -s scott/tiger << Eof

insert into emp(empno, ename)

values (\$x, 1\$y1);

commit;

Eof

: W2

\$sh az.sh \(\)

3 write a shall script to
retrieve data from oracle
emp table.

\$vi a3.sh \(\)

\$2\lphu_s \(-\beta \) Scott/tiger \(\times \) Eof

Select \(\phi \) from \(\ext{emp} \);

\(\times \)

\$\text{Sh a2.sh} \(\times \)

Est serverouter on

exec square (9)

Est

wa

(8) surite a shall script to load Hat life data into oracle table. scat > emp & 101, Havi, 80000, 10 0 102, Sai, 75000, 20 € 103, siva, 60000, 30 0 104, lakshmi, 90000, 100 CHI d svi as. sh & for i in cat empe a= echo \$1 | cut -d", "-f 1" b = echo di | cut -d", " - f 2° c= echo \$1 ! cut -d", - + 3 d= echo \$1 | cut -d"," -f 4: Salphus - 8 Scott/ biger < x FOF insert into emplemeno, ename, sal, def values (\$a, \$6, \$c, \$d); commit; EOF done : W9 \$sh as.sh e

Haw to connect to oracle

\$ solphus & asis

username: scott &

password: tiger &

\$ sol>! < unixCommand> &

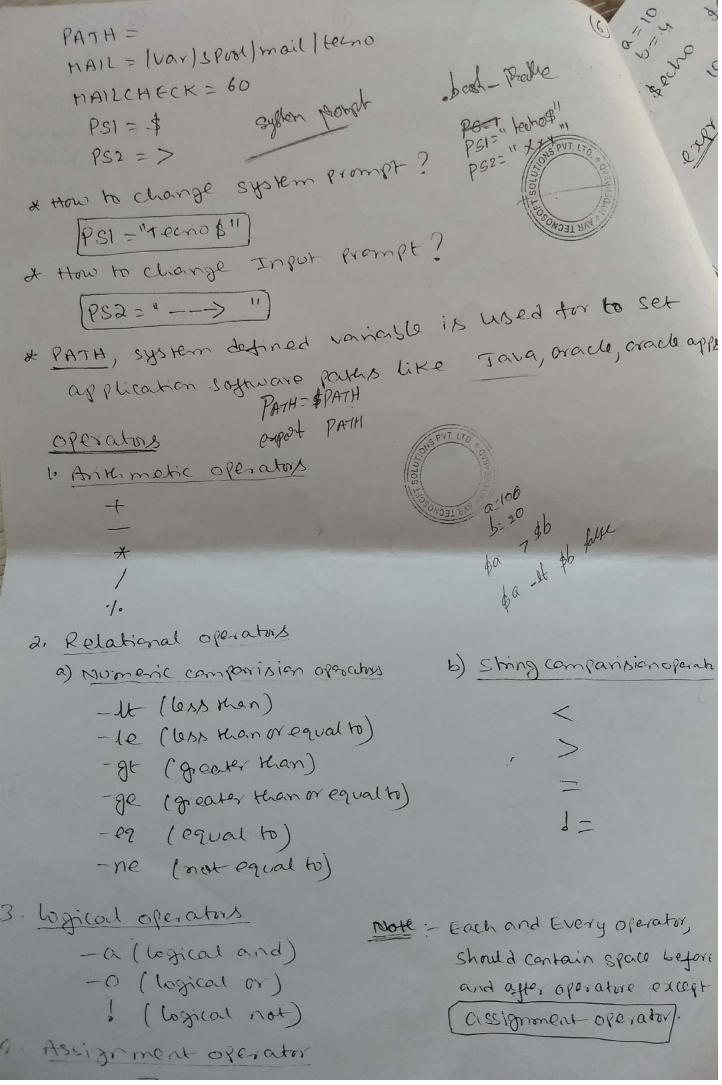
\$ sol>! < unixCommand> &

\$ sol>! & b command> &

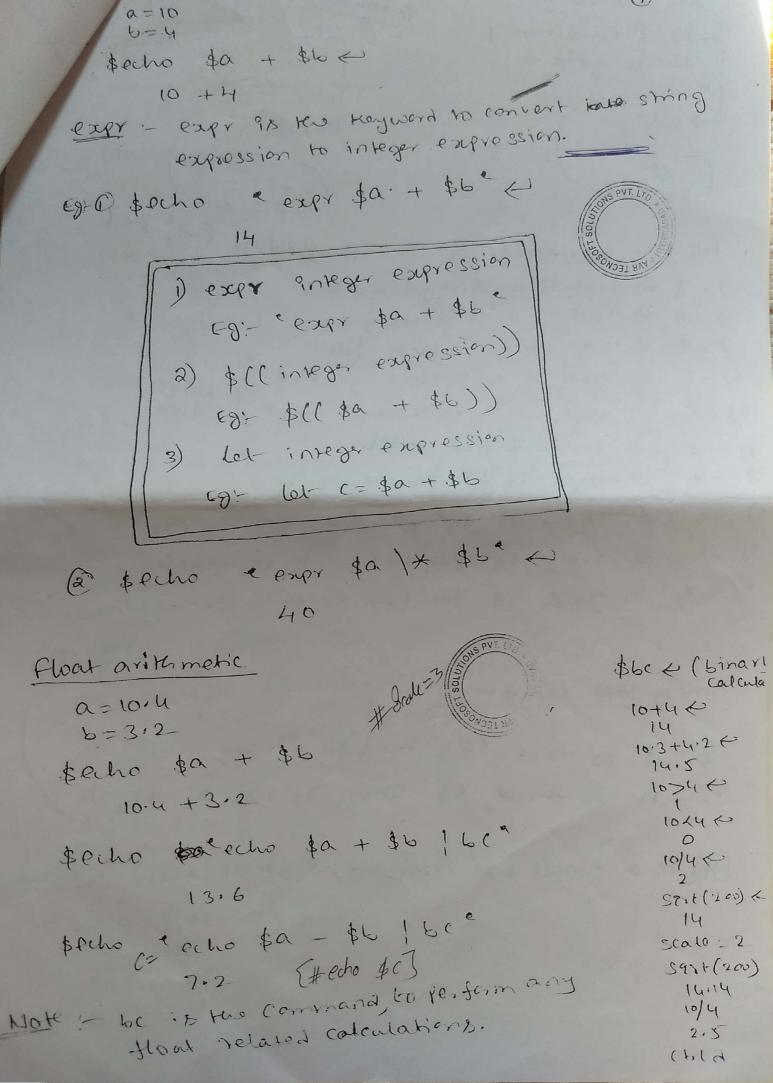
\$ sol & b command> &

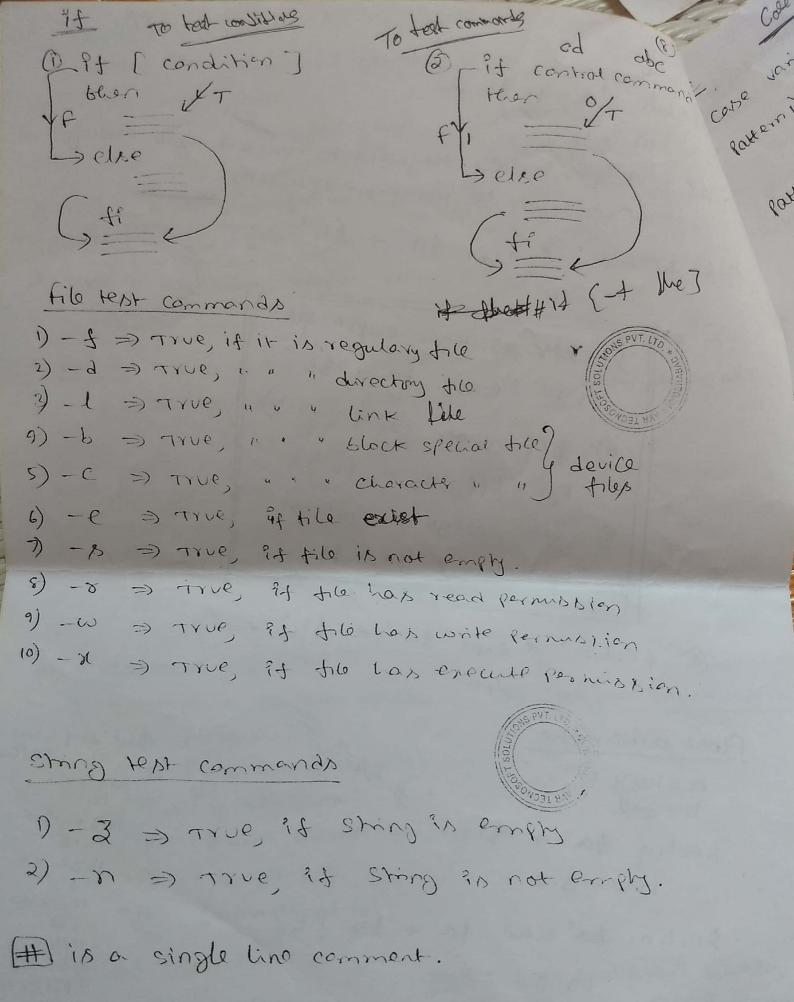
\$ sol>! & b comm

(a) a " (5) 1) x="Tecno" (16) X="Tecno" x=\$ { x y soft x= \$xsoft x= \$ 5 x 2 Sd4" \$ echo \$ x (It Prints \$ echo \$x We need spacebook empty value) Tecnosoft gould Judal duckdrows Mote: To add some text to existing variable, use & y. Constant variables: "readonly" is the Keyword to create constant variables. x = 100 Colobal variables: "expert" is the Keyword, to create global # export y variables. export variablename is the keyword to How to take input from user: "read" 5 good - P "Fater a soure: " some bake input from user. Syntax: read variablemane How to hake input from user with prompt read -P " prompt;" variable name Eg: O\$read - P " gater a name: " name & Enter a name: gernosoft & \$ read -s - P venter a password: " name e Enter a password: ¿ (Librart draphager) in the prompt) System defined variables: "Set" is the command, to see all system defined variables along with its values. \$ set all HOME = | home | telno SHELL = 16in/bash LOGNANE = HELDO

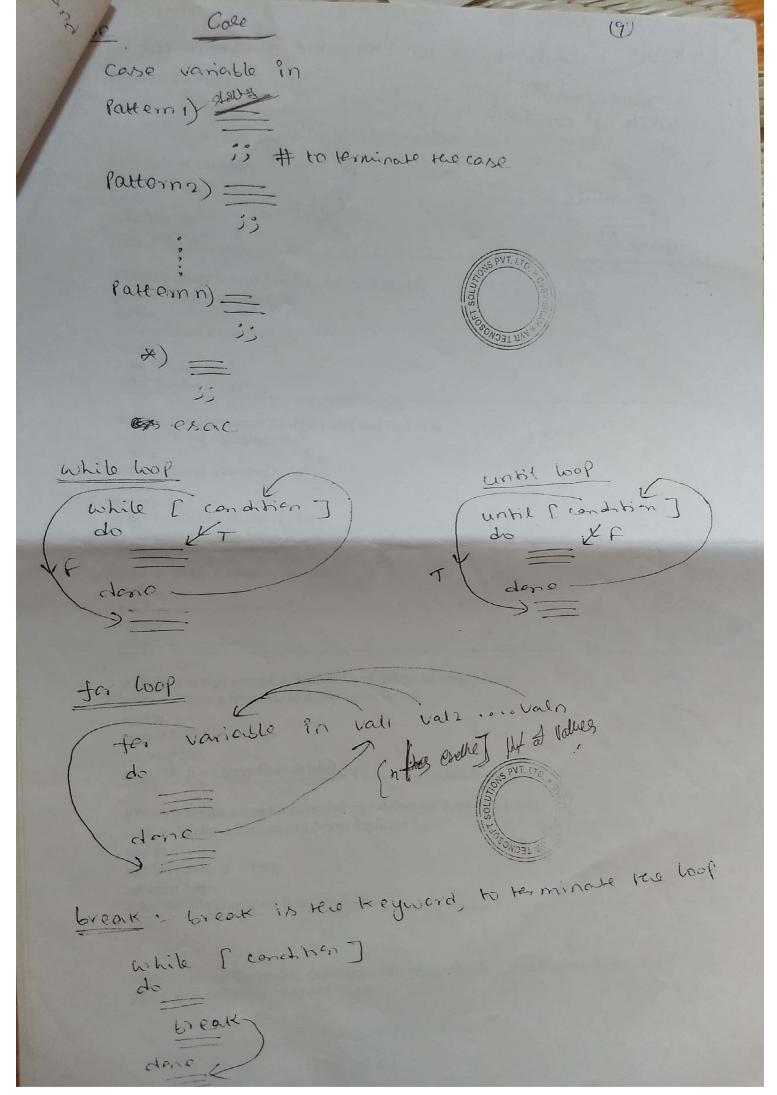


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continue & continue is the Keyword, to start teal, while [condition do continue

Shell Scripting Programs

#Example of variables a=10 b=20 echo "a is : \$a" echo "b is : \$b"

#Write a script accept 2 intgere no's and display echo -e "Enter a number1 : \c" read a echo -e "Enter a number2 : \c" read b echo "a value is : \$a" echo "b value is : \$b"



#Write a script accept a filename and open echo -n "Enter a filename to open:" read fn echo "-----" cat \$fn echo "-----"

#Write a script accept a filename and delete all empty lines echo -n "Enter a filename to delete blank lines:"
read fn
grep -v "^\$" \$fn > temp
mv temp \$fn
echo "\$fn file empty lines deleted."

#Write a script accept a filename and delete all duplicate lines.

echo -n "Enter a filename to delete duplicate lines:"

read fn

sort \$fn | uniq -u > temp

mv temp \$fn

echo "\$fn file Duplicate lines are deleted."

```
#write a script accept a number and check the given no is +ve or -ve.
    echo -n "Enter a number:"
                   ($n-8+0]
    read n
    if[$n-gt 0]
    then
    echo "$n is a +ve no."
    else
    echo "$n is a -ve no."
   #Write a script accept a intger no and check the given no is even or odd number
   echo -n "Enter a number:"
   read n
   if [ 'expr $n % 2' -eq 0 ]
   echo "$n is an Even no."
    else
    echo "$n is an Odd no."
    #Write a script accept 2 strings and check the given 2 strings are equal or not
    echo -n "Enter a string1:"
    read strl
     echo -n "Enter a string2: "
     read str2
     if [ "$str1" = "$str2" ]
     echo "Strings are Equal"
    echo "Strings are not Equal"
   #Write a script accept a filename and delete given file
  echo -n "Enter a filename:"
  read fn
  if rm $fn
  then
 echo "$fn file deleted."
 else
 echo "No such file"
 fi
#Write a script check today is Sunday or not
x = 'date + \%a' # x = 'date | cut - c 1 - 3'
if \int \mathbf{x} = \mathbf{Sun}
then
echo "Yes. Today is Sunday"
else
echo "Sorry. Today is $x day"
```

```
Tecnosoft Solutions
     #Write a script accept a user and check the given user exist or not
     read un
     if grep -w $un /etc/passwd > /dev/null
     then
    echo "$un user exist"
    else
    echo "$un user doesn't exist"
    fi
    #/dev/null is a special file. It is used for to write unwanted output.
    #Write a script accept a user and check the user is connect to the server or not.
    read un
    if grep -w $un /etc/passwd > /dev/null
    then
    if who | grep -w $un > /dev/null
    then
      echo "Logged In"
    else
     echo "Not Logged In"
    fi
  else
  echo "$un user doesn't exist",
 fi
#Write a script accept a filename and open
 echo -n "Enter a filename: "
 read fn
 if [ -e $fn ]
 then
                                    (-d $fh }
  if [ -f $fn ]
  then
   if [ -r $fn ]
   then
   cat $fn
   else
   echo "No read permission"
  #chmod 644 $fn
  #cat $fn
  # echo "No read permission"
  fi
 else
 echo "It is not a file"
 fi
else
echo "$fn file dosen't exist"
```

```
#Write a script accept a filename and check the file is regular file or directory file
  echo -n "Enter a filename: "
  read fn
  if [-e $fn]
  then
   if [-f $fn]
   then
    echo "$fn is a regular file"
   elif [-d $fn]
   then
    echo "$fn is a directory file"
   echo "It is not a file or directory"
    fi
   else
    echo "$fn-file dosen't exist"
   #Write a script accept 2 filenames and chieck the given 2 files are same or not
   echo -n "Enter a filename 1:"
   read fal
    echo -n "Enter a filename 2:"
    read fn2
    x=cmp fn1 fn2
    if [ -z "$x" ]
   then
   echo "Given 2 files are same
  echo "Given 2 files are not same"
 #write a script accept a string and check the given string is empty or not
 echo -n "Enter a string: "
read str
if[-z "$str"]
then
echo "Given string empty"
else
echo "Given string not empty"
fi
```

```
#Example of Menu Program
      tput cup 6 10
      echo "MAIN MENU"
      tput cup 7 10
      echo "*******
      tput cup 8 10
      echo "1.Date"
     tput cup 9 10
     echo "2.List of users"
     tput cup 10 10
     echo "3. Open a file"
     tput cup 11 10
     echo "4.delete a file"
     tput cup 12 10
     echo "5. Exit"
     tput cup 20 5
     echo "enter a choice[1-5]: "
     read choice
     case Schoice in
     1)echo "Today date is: 'date'";;
     2)who ;;
     3)sh fopen.sh;; # ./fopen.sh
     4)sh del.sh;; #./del.sh
      5)echo "Thank You"
     exit/;;) # to terminate the program
     *)echo "choice wrong. try again";;
    esac
    #Write a script print no's from 1 to 10
   while [ $i -le 10 ]
   do
  echo $i
  i='expr $i + 1'
  done
 #Write a script accept a string and display reverse of the given string
 echo -n "Enter a string: "
 read str
l='echo $str | wc -c' # length of the string
while [ $1-gt 0 ]
do
ch= echo Sstr | cut -c $1
temp=$temp$ch
1= expr $1 - 1'
done
echo "Reverse of $str is: $temp"
```

```
Tecnosort Solutions
#Example of while loop
ans="y"
while [ $ans = "y" ]
do
echo "Enter a filename to open:"
read fn
if [ -e $fn -a -f $fn ]
then
cat $fn
else
echo "no such file"
echo "Do u want to open one more file [y/n]:"
read ans
done
#Example of while loop
while true # until false
                                  true
do
                                       aho -n "exter a the same"
echo "Enter a filename to open:"
read fn
if [ -e $fn -a -f $fn ]
then
cat $fn
break
else
continue
fi
done
#Example of sleep
# sleep is used for to stop the execution specified no of seconds.
while true
do
clear
tput cup 5 8
echo "WELCOME TO"
sleep 2
clear
tput cup 5 8
echo "TECNOSOFT"
sleep 2
done
```

```
#Write a script create "n" no of users
     echo -n "Enter no of users to create:"
     read n
     Si=1
    while [ $i -le $n ]
    do
    $x=tecno$i # It creates users with tecno name
    useradd $x
    i='expr $i + 1'
    done
    #Example of for loop
    for i in 12345
    do
    echo $i
   done
   #Example of for loop
    a = 10
    b = 20
    c = 30
    for i in a b c
    do
    echo Si
    done
    #Example of for loop
     a=10
    b = 20
    c = 30
   for i in $a $b $c
   do
   echo Si
  done
  #Write a script to display all sub directories of current directory
  for i in *
 do
 if [-d $i]
 then
 echo Si
 fi
done
#Write a script to display all empty files in the current directory
for i in *
do
if[! -s $i]
then
echo $i # rm $i => To delete empty files
```

```
done
 #Write a script to display alll exe files in the current directory
 for i in *
 do
 if [-f$i-a-r$i-a-x$i]
 echo $i
 fi
 done
 #Write a script to display details of employees who are receiving salary more than 5000 from
 emp file
 #101, hari, 9000, 10
 #102,madhu,4000,20
 #103,anu,000,30
 #104,priya,8000,10
for i in 'cat emp'
j='echo $i | cut -d"," -f 3'
if [$j-ge 5000]
then
echo $i
fi
done
#Write a script retrieve details of employees who are receiving salary more than 5000 in
deptno 10 from emp file and insert into emp1 file
#101,hari,9000,10
#102,madhu,4000,20
#103,anu,666666000,30
#104,priya,8000,10
for i in 'cat emp'
do
j='echo $i | cut -d"," -f 3'
k='echo $i | cut -d"," -f 4'
if [$j-ge 5000 -a $k -eq 10]
then
echo $i >> emp1
 done
```