

If Conditional Construct in Shell Program

```
#!/bin/sh
```

```
echo "Enter Source and Target Filenames"
```

```
read source target
```

```
if cp $source $target
```

```
then
```

```
echo "File Copied Successfully"
```

```
else
```

```
echo "Copying of file Failed"
```

```
fi
```

O/P

Enter Source and
Target Filenames

Text.txt Text1.txt

File copied Successfully

Operator

-eq - equal to

-ne - Not equal to

-ge - greater than equal to

-gt - greater than

-lt - less than

-le - less than equal to

```
#!/bin/sh
```

```
echo "Enter a Number from 1 to 10"
```

```
read num
```

```
if test $num -lt 6
```

```
then
```

```
echo "I used to think I was indecisive"
```

```
echo "Anonymous"
```

```
fi
```

Shell program to check wheather given number
is +ve, -ve, 0.

echo "Enter the number"

&f & read n

if [\$n -eq 0]

then

echo "The number is zero"

else if [\$n -gt 0]

elif then

echo "The number is positive"

else

echo "The number is negative"

fi

fi

Write a shell script to check wheather the file
→ directory file or not, print corresponding file.

echo "to check file directory or not"

read filename

if [-d \$filename]

then

echo "It is a directory file"

else

echo "It is not a directory file"

fi

OP

to check file directory or not
402.

It is a directory file

O/P:

Enter the number

-6

The number is ne-
gative

Write a shell program to print largest of two numbers

```
echo "Enter two numbers"
read n m
if [ $n -gt $m ] then
echo "Largest number is $n"
else
echo "Largest number is $m"
fi
```

echo "Largest number using positional parameter"

```
echo "$0 = " $0
echo "$1 = " $1
echo "$2 = " $2
if [ $1 -gt $2 ] then
echo "Largest num is $1"
else
echo "Largest num is $2"
fi
```

Write a shell program to print largest of three numbers

```
echo "Enter three numbers"
read a b c
if [ $a -gt $b && $a -gt $c ] then
echo "Largest number is $a"
else if [ $b -gt $c ] then
echo "Largest number is $b"
else
echo "Largest number is $c"
fi
```

O/P
Enter 3 numbers
2 4 6
Largest number is 6.

String Comparison

' S1=S2 → String S1 = S2

S1!=S2 → S1 is not equal to S2

-n stg → string stg is not a null string

-z stg → string stg is a null string

stg → string stg is assigned and not null

S1=S2 → string S1=S2 [Korn and Bash only]

Write a shell program to Compare two Strings and print whether they are equal or not equal.

```
echo "Enter String1 and String2"
read str1 str2
```

```
if [ $str1 = $str2 ] then
echo " Given strings are equal"
else
echo " Given strings are not equal"
fi
```

O/P
Enter String1 &
String2
lav lav
Given strings are
equal

Switch

Case word in

pattern1) statement to be executed
pattern2) statement to be executed
*) Default Condition to be executed ::
esac

Add 2 numbers, Sub, mul, div Using case Statement

```
echo "Enter 2 numbers"
read n m
echo "Enter the operation"
read op
```

Case \$op in

```
"add") add=' $n + $m ' | bc'
echo "$add"
```

```
"sub") sub=' $n - $m ' | bc'
echo "$sub"
```

```
"mul") mul=' echo $n \* $m | bc'
echo "$mul"
```

```
"div") div=' echo $n / $m | bc'
echo "$div"
esac
```

O/P
Enter 2 numbers
5 6
Enter the operation
add
11

• Compute gross salary of an employee

- 1) basic Salary person
- 2) For that add 10% hra
- 3) For that add 20% da

Print Final Salary

Program to print numbers

from 1 to 5

i = 1

while [\$i -le \$n]

do

echo \$i

i = expr \$i + 1

done

even or odd

echo "enter num"

read n

if ['expr \$n % 2' -eq 0]

then

echo "even"

else

echo "odd"

fi

O/P

enter num

84

even

