

Exp 0:

Command Substitution: Sum 456

```
#fn=456
```

```
# a=`echo $fn |cut -c 1`
```

```
# b=`echo $fn |cut -c 2`
```

```
# c=`echo $fn |cut -c 3`
```

```
#d=`expr $a + $b + $c`
```

```
# echo "sum of 456 is :" $d
```

# 1)program for addition and subtraction

```
echo "Enter a:"
```

```
read a
```

```
echo "Enter b:"
```

```
read b
```

```
sum=`expr $a + $b`
```

```
diff=`expr $a - $b`
```

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

```
quo=`expr $a / $b`
```

```
echo $sum
```

```
echo $diff
```

```
echo $prod
```

```
echo $quo
```

## 2 multiple conditions in for loop

```
for g in 1 2 3
do
  for c in 123 456 789
  do
    if [[ ( "$g" -eq 1 && "$c" = "123" ) || ( "$g" -eq 2 && "$c" = "456" ) ]];
  then
    echo "g = $g; c = $c; true"
  else
    echo "g = $g; c = $c; false"
  fi
done
```

### 3 program on while

```
a=0;
```

```
while [ $a -lt 5 ];
```

```
do
```

```
date
```

```
a=`expr $a + 1`
```

```
done
```

## 4 Program on for loop

```
i=1
```

```
for day in Mon Tue Wed Thu Fri
```

```
do
```

```
echo "Weekday $((i++)) : $day"
```

```
done
```

## 5 shell script with C snippet

```
#!/bin/bash  
for (( c=1; c<=5; c++ ))  
do  
echo "Welcome $c times..."  
done
```

**6 shell script to execute to identify the count of word(user) in passwd file**

```
#!/bin/bash
```

```
for f in /etc/*
```

```
do
```

```
if [ "${f}" == "/etc/passwd" ]; then
```

```
  c=$(grep -c User /etc/passwd)
```

```
  echo "Total ${c} name defined in ${f}"
```

```
  break
```

```
fi
```

```
done
```

## 7 Shell script to identify file or folder

```
#!/bin/bash
FILES="$@"
for f in $FILES
do
    # if .bak backup file exists, read next file
    if [ -f $f ]; then
        echo "It is a file"
        continue # read next file and skip cp command
    fi
done
```



## 9 shell script for function to add numbers

```
#!/bin/bash
#function to add two numbers
add()
{
x=$1
y=$2
echo -e "Number entered by u are: $x and $y"
echo "sum of $1 and $2 is `expr $x + $y` "
}
```

**# main script**

echo "enter first number"

read first

echo "enter second number"

read sec

**#calling function**

add \$first \$sec

echo "end of the script"

## 10 Case syntax in shell script

```
#!/bin/bash
```

```
for filename in $(ls)
```

```
do
```

```
    # Take extension available in a filename
```

```
    ext=${filename##*\.}
```

```
    case "$ext" in
```

```
        c) echo "$filename : C source file"
```

```
        ;;
```

```
        o) echo "$filename : Object file"
```

```
        ;;
```

```
        sh) echo "$filename : Shell script"
```

```
        ;;
```

```
        txt) echo "$filename : Text file"
```

```
        ;;
```

```
        *) echo " $filename : Not processed"
```

```
        ;;
```

```
    esac
```

```
done
```

## 11 Case with user inputs

```
#!/bin/bash
```

```
echo -n "Do you agree with this? [yes or no]: "
```

```
read yno
```

```
case $yno in
```

```
    [yY] | [yY][Ee][Ss] )
```

```
        echo "Agreed"
```

```
        ;;
```

```
    [nN] | [n|N][O|o] )
```

```
        echo "Not agreed, you can't proceed the installation";
```

```
        exit 1
```

```
        ;;
```

```
*) echo "Invalid input"
```

```
;;
```

## 12 Case with starting the application

```
#!/bin/bash
```

```
case "$1" in
```

```
'start')
```

```
echo "Starting application"
```

```
/usr/bin/startpc
```

```
::
```

```
'stop')
```

```
echo "Stopping application"
```

```
/usr/bin/stoppcc
```

```
::
```

```
'restart')
```

```
echo "Usage: $0 [start|stop]"
```

```
::
```

```
esac
```