

1. \$ ./sum.sh 2 4  
\$ ./sum.sh 2 4 6

```
#!/bin/bash
#check if number of arguments is 2, if not - print warning, if yes - proceed
if [ $# -ne 2 ]
then
    echo "Execution: $0 x y"
    echo "Where x and y are two integers for which sum will be calculated"
else
    sum=`expr $1 + $2 `
    echo "Sum of $1 and $2 is $sum "
fi
```

2. \$ ./biggest.sh 5 8 2

```
#!/bin/bash
num1=$1
num2=$2
num3=$3
if [ $num1 -gt $num2 ] && [ $num1 -gt $num3 ]
then
    echo "$num1 is biggest number"
elif [ $num2 -gt $num1 ] && [ $num2 -gt $num3 ]
then
    echo "$num2 is biggest number"
elif [ $num3 -gt $num1 ] && [ $num3 -gt $num2 ]
then
    echo "$num3 is biggest number"
fi
```

3. \$ ./biggest.sh 5 8  
\$ ./biggest.sh 5 8 2

```
#!/bin/bash
if [ $# -ne 3 ]
then
    echo "Use $0: number1 number2 number3 "
else
    num1=$1
    num2=$2
    num3=$3
    if [ $num1 -gt $num2 ] && [ $num1 -gt $num3 ]
    then
        echo "$num1 is biggest number"
    elif [ $num2 -gt $num1 ] && [ $num2 -gt $num3 ]
    then
        echo "$num2 is biggest number"
```

```

elif [ $num3 -gt $num1 ] && [ $num3 -gt $num2 ]
then
    echo "$num3 is biggest number"
fi
fi

```

4. \$ ./biggest2.sh 2 2 2  
\$ ./biggest2.sh a b c

```

#!/bin/bash
if [ $# -ne 3 ]
then
    echo "Use $0: number1 number2 number3 "
else
    num1=$1
    num2=$2
    num3=$3
    if [ $num1 -gt $num2 ] && [ $num1 -gt $num3 ]
    then
        echo "$num1 is biggest number"
    elif [ $num2 -gt $num1 ] && [ $num2 -gt $num3 ]
    then
        echo "$num2 is biggest number"
    elif [ $num3 -gt $num1 ] && [ $num3 -gt $num2 ]
    then
        echo "$num3 is biggest number"
    #what if you give the same number 3 times???
    elif [ $1 -eq $2 ] && [ $1 -eq $3 ] && [ $2 -eq $3 ]
    then
        echo "All the three numbers are equal"
    #what if 3 arguments that are not really numbers???
    else
        echo "I can not figure out which number is bigger"
    fi
fi

```

5. \$ ./math-operations.sh 2 + 3  
\$ ./math-operations.sh 4 - 2  
\$ ./math-operations.sh 10 x 2  
\$ ./math-operations.sh 10 / 2  
But be careful  
\$ ./math-operations.sh 10 / 3  
\$ ./math-operations.sh 10 v 2  
\$ ./math-operations.sh 10 + 2 - 4

```

#!/bin/bash
#check if all the arguments are provided: 2 numbers and operation

```

```
if test $# = 3
then
    case $2 in
        #sum
        +) let result=$1+$3;;
        #subtract
        -) let result=$1-$3;;
        #multiply
        #case insensitive
        x|X) let result=$1*$3;;
        #divide
        /) let result=$1/$3;;
        #unknown operator
        *) echo Warning - $2 invalid operator, only +,-,x,/ operator allowed
           exit;;
    esac
    echo $1 $2 $3 = $result
else
    echo "Syntax: $0 value1 operator value2"
    echo "where, value1 and value2 are numeric values"
    echo "operator can be +,-,x,/"
fi
```