```
1. $ cp hello.sh sum.sh
   $ nano sum.sh
   $ ./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"
     sum='expr $1 + $2 '
     echo "Sum of $1 and $2 is $sum "
2. $ cp hello.sh biggest.sh
   $ nano biggest.sh
   $./biggest.sh 5 8 2
   #!/bin/bash
   num1=$1
   num2=$2
   num3=$3
   if [ $num1 -gt $num2 ] && [ $num1 -gt $num3 ]
      echo "$num1 is biggest number"
   elif [ $num2 -gt $num1 ] && [ $num2 -gt $num3 ]
       echo "$num2 is biggest number"
   elif [ $num3 -gt $num1 ] && [ $num3 -gt $num2 ]
     echo "$num3 is biggest number"
   fi
3. $ cp biggest.sh biggest1.sh
   $ nano biggest1.sh
   $./biggest.sh 5 8
   $./biggest.sh 5 8 2
   #!/bin/bash
   if [$# -ne 3]
    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. $ cp biggest1.sh biggest2.sh
   $ nano biggest2.sh
   $./biggest.sh 2 2 2
   $ ./biggest.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 $num3 ]
        echo "$num1 is biggest number"
    elif [ $num2 -gt $num1 ] && [ $num2 -gt $num3 ]
        echo "$num2 is biggest number"
    elif [ $num3 -gt $num1 ] && [ $num3 -gt $num2 ]
      echo "$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. $ cp hello.sh math-operations.sh
   $ nano math-operations.sh
   $./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
#!/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
```