

1. \$ cp hello.sh expr.sh  
\$ nano expr.sh  
\$ ./expr.sh 1

```
#!/bin/bash
i=$1
echo "Initial value is: $i"
i=`expr $i + 2`
echo "Value after adding is $i"
i=`expr $i \* 3`
echo "Value after multiplying is $i"
i=`expr $i % 2`
echo "Value after performing modulo is $i"
```

2. ./expr.sh 1.5

```
#!/bin/bash
i=$1
echo "Initial value is: $i"
echo -n "Value after adding is "
echo "$i+2"|bc
echo -n "Value after multiplying is "
echo "($i+2)*3"|bc
echo -n "Value after performing modulo is "
echo "($i+2)*3%2"|bc
```

3. \$ cp expr.sh expr1.sh  
\$ nano expr1.sh  
\$ ./expr1.sh 1.5

```
#!/bin/bash
i=$1
echo "Initial value is: $i"
echo -n "Value after adding is "
echo "$i+2"|bc
echo -n "Value after multiplying is "
echo "($i+2)*3"|bc
echo -n "Value after performing modulo is "
echo "($i+2)*3%2"|bc
```

4. \$ cp expr.sh test.sh  
\$ nano test.sh  
\$ ./test.sh 2 1  
\$ ./test.sh 1 2

```
#!/bin/bash
i=$1
j=$2
echo "Values to test $i $j"
test $i -gt $j
k=$?
echo "Test exitcode is $k"
```

```
$ ./test.sh 2 1
$ ./test.sh 1 2
```

5. \$ cp test.sh test1.sh  
\$ nano test1.sh  
\$ ./test1.sh 1 2  
\$ ./test1.sh 2 1

```
#!/bin/bash
i=$1
j=$2
echo "Values to test $i $j"
test $i -gt $j && echo "True"
test $i -gt $j || echo "False"
```