

The screenshot shows a Linux desktop environment with a terminal window open. The terminal window has a title bar with tabs for *add.sh, compare.sh, divide.sh, and maxOf3.sh. The main area of the terminal displays a shell script for calculating the sum of digits of a number. The script uses a while loop to repeatedly read digits from the user until the number is zero. It then prints the total sum.

```
1 #!/bin/bash
2 echo Enter number1
3 read n1
4 summation=0
5 while [ $n1 -gt 0 ]
6 do
7     summation=`expr $n1 % 10 + $summation`
8     n1=`expr $n1 / 10`
9 done
10 echo Sum of the digits is $summation
```

The screenshot shows a Linux desktop interface with a terminal window open. The terminal window has a title bar with tabs for "add.sh", "compare.sh", "divide.sh", and "max0". The main area of the terminal displays a shell script for reversing digits of a number. The script uses a while loop to repeatedly take the remainder of the number when divided by 10 (using expr \$n1 % 10), add it to the sum (expr \$r + 10 * \$sumation), and then update the number (expr \$n1 / 10). The script concludes with an echo statement outputting the reversed number.

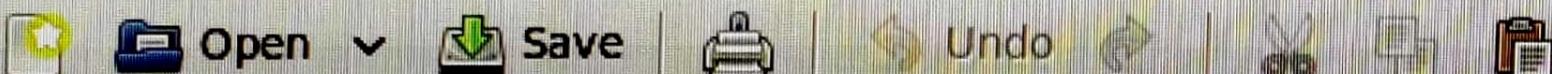
```
1 #!/bin/bash
2 echo Enter number1
3 read n1
4 sumation=0
5 while [ $n1 -gt 0 ]
6 do
7     r=`expr $n1 % 10`
8     sumation=`expr $r + 10 \* $sumation`
9     n1=`expr $n1 / 10`
10 done
11 echo Reverse of the number is $sumation
```

The image shows a screenshot of a Linux desktop environment. At the top, there is a menu bar with "Applications", "Places", "System", and icons for a browser, file manager, and system tools. Below the menu bar is a toolbar with "File", "Edit", "View", "Search", "Tools", "Documents", and "Help". The main area contains a terminal window with a script editor. The terminal window has tabs for "add.sh", "compare.sh", "divide.sh", and "max". The code in the "add.sh" tab is as follows:

```
1 #!/bin/bash
2 echo Enter number1
3 read n1
4 i=2
5 i2=`expr $i \* $i`
6 while [ `expr $i \* $i` -le $n1 ]
7 do
8     if [ `expr $n1 % $i` -eq 0 ]; then
9         echo $n1 is not prime
10        break
11    fi
12    let i++
13
14 done
15 if [ `expr $i \* $i` -gt $n1 ]; then
16 echo $n1 is prime
17 fi
18
```



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*add.sh X compare.sh X divide.sh X maxOf3.sh X

```
1 #!/bin/bash
2 echo Enter number1
3 read n1
4 echo Enter number2
5 read n2
6 if [ $n2 -eq 0 ];
7 then
8     echo Division by 0 is not possible
9 else
10    div=`expr $n1 / $n2`
11    rem=`expr $n1 % $n2`
12    echo Quotient is $div and Remainder is $rem
13 fi
```

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Open Save Undo

*add.sh X compare.sh X divide.sh X max

```
1 #!/bin/bash
2 echo Enter number1
3 read n1
4 echo Enter number2
5 read n2
6 echo Enter number3
7 read n3
8 if [ $n1 -gt $n2 ]; then
9     if [ $n1 -gt $n3 ]; then
10         echo $n1 is highest
11     else
12         echo $n3 is highest
13     fi
14 else
15     if [ $n2 -gt $n3 ]; then
16         echo $n2 is highest
17     else
18         echo $n3 is highest
19     fi
20 fi
```

Applications Places System

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Open Save

*add.sh compare.sh div

```
1 #!/bin/bash
2 echo Enter number1
3 read n1
4 mod=`expr $n1 % 2`
5 if [ $mod -eq 0 ]; then
6 echo Even number
7 else
8 echo Odd number
9 fi
```

A screenshot of a Linux desktop environment, likely Kali Linux, showing a terminal window with a bash script. The terminal window has a title bar with tabs for "add.sh", "compare.sh" (which is currently active), "divide.sh", and "Cut the s". The script content is as follows:

```
1 #!/bin/bash
2 echo Enter number1
3 read n1
4 echo Enter number2
5 read n2|
6 if [ $n1 -gt $n2 ]; then
7 echo Number 1 is greater than Number 2
8 elif [ $n1 -lt $n2 ]; then
9 echo Number 2 is greater than Number 1
10 else
11 echo Number 1 is equal to Number 2
12 fi
```

A screenshot of a Linux desktop environment. At the top, there is a panel with icons for Applications, Places, System, and several system status indicators. Below the panel is a menu bar with File, Edit, View, Search, Tools, Documents, and Help. Underneath the menu bar is a toolbar with icons for Open, Save, Undo, and Redo. The main window shows a terminal or script editor with four tabs: *add.sh, compare.sh, divide.sh, and multiply.sh. The *add.sh tab is active and contains the following Bash script:

```
1 #!/bin/bash
2 echo Enter number1
3 read n1
4 echo Enter number2
5 read n2
6 sum=`expr $n1 + $n2`
7 echo The summation of the numbers is $sum
```

File Edit View Search Tools Documents Help



shell1.sh X

```
1 #!/bin/bash
2 ls -l $1 | tr -s ' ' | cut -d ' ' -f5,9 | sort -nr >temp
3 i=0
4 echo list of files with size greater than 50 bytes
5 while read x; do
6     size=`echo $x | cut -d ' ' -f1`
7     if [ $size -ge 50 ]; then
8         size1=`echo $x | cut -d ' ' -f2`
9         echo $size1
10        let i++
11    fi
12 done < temp
13 echo total $i files are there in directory $1
```

```
1 #!/bin/bash
2 if [ $# -ne 1 ]; then
3     echo Not a valid Argument
4 else
5     ls -l $1 | tr -s ' ' | cut -d ' ' -f6,7,8
6 fi
```

```
1 #!/bin/bash
2 if [ $# -ne 2 ]; then
3     echo Two directories are required
4 else
5     ls $1 > temp
6     while read x; do
7         ls $2 | grep $x > templ
8         if [ -s templ ]; then
9             rm -rf ${2/$x}
10        fi
11    done < temp
12 fi
13 ls $1
14 ls $2
15
```

The screenshot shows a file editor interface with the following details:

- Toolbar:** Includes icons for Open (with a dropdown arrow), Save, Undo, and Redo.
- Tab Bar:** Three tabs are visible: "shell2.sh", "shell12.sh", and "shell13.sh". The "shell13.sh" tab is currently selected and highlighted.
- Code Editor:** The content of the "shell13.sh" tab is a shell script:

```
1 #!/bin/bash
2 ls | grep '^*[ AEI0Uaeiou ]*' > temp
3 while read x; do
4     if [ -f $x ]; then
5         echo $x
6     fi
7 done < temp
```