

Chapter 12

12.1 I used the `set` command.

12.2 The steps are:

1. Create the `ch12ex2` file that contains the two commands by using the text editor of your choice (I used the `vi` editor). Put `#!/bin/sh` in the first line of file.
2. Make the `ch12ex2` file executable by using the `chmod` command.
3. Run the script by `ch12ex2` at the shell prompt and hit the <Enter> key.

The above steps are performed in shell session below.

```
$ cat ch12ex2
#!/bin/sh
date
who
$ chmod +x ch12ex2
$ ./ch12ex2
Mon Jul 31 17:49:42 PDT 2000
sarwar pts/0 Jul 31 16:22
bobk pts/1 Jul 31 13:22
$
```

12.3 The following session shows my work.

```
$ myname="Syed Mansoor Sarwar"
$ echo $myname
Syed Mansoor Sarwar
$
```

12.4 The following session shows my work.

```
$ myname=`echo "Hello, World!"`
$ echo $myname
Hello, World!
$
```

12.5 The following session shows my work.

```
$ read myname
Syed Mansoor Sarwar
$ export myname
$
```

12.6 The following session shows my work.

```
$ anyname=myname
$ readonly anyname
$ unset anyname myname
anyname: This variable is read only.
$
```

12.7 The following session shows my work.

```

$ cat ch12ex7
echo "$@"
shift 2
echo "$@"
$ ./ch12ex7 Hello, World!
Hello, World!

$ ./ch12ex7 One 2 three four
One 2 three four
three four
$

```

12.8 The following session shows my work.

```

$ cat ch12ex8
echo "$@"
shift 2
echo "$@"

set `who | head -1`
echo "$@"
$ ./ch12ex8 Hello, World!
Hello, World!

Davis pts/0 Sep 2 15:23 (:0)
$ ./ch12ex8 One 2 three four
One 2 three four
three four
Davis pts/0 Sep 2 15:23 (:0)
$

```

12.9 No solution is needed for most of the problem. When the script is run with a directory argument, the following error message appears on the screen

```
if_demo2: argument must be an ordinary file
```

Yes, the output makes sense.

12.10 Here is the script.

```

$ cat ch12ex10
#!/bin/sh
if [ $# -ne 1 ]
then
    echo "Usage: $0 filename"
    exit 1
fi
filename="$1"
if [ -f "$filename" ]
then
    set -- `ls -l $filename`

```

```

        owner="$3"
        date="$5 $6, $7"
        echo "Name $filename"
        echo "Owner $owner"
        echo "Date $date"
        exit 0
    else
        echo "$0 : $filename is not a simple file."
        exit 1
    fi
$

```

12.11 Here is the script.

```

$ cat ch12ex11
#!/bin/sh
if [ $# -eq 0 ]
then
    echo "Usage: $0 list_of_hostnames"
    exit 1
fi
for host
do
    echo `ping "$host" | head -1`
done
exit 0
$

```

12.12 The following (in the ch15ex12.a file) is the version of the script with the while statement.

```

$ cat ch12ex12.a
#!/bin/sh
if [ $# -eq 0 ]
then
    echo "Usage: $0 list_of_hostnames"
    exit 1
fi
while [ $# -ne 0 ]
do
    host="$1"
    echo `ping "$host" | head -1`
    shift
done
exit 0
$

```

The following (in the ch15ex12.b file) is the version of the script with the until statement.

```
$ cat ch12ex12.b
#!/bin/sh
if [ $# -eq 0 ]
then
    echo "Usage: $0 list_of_hostnames"
    exit 1
fi
until [ $# -eq 0 ]
do
    host="$1"
    echo `ping "$host" | head -1`
    shift
done
exit 0
$
```