

Shell script tutorial

A shell script is a series of [bash commands](#) that can be executed by shell. A nice tutorial for shell scripting is available at [the shell tutorial](#) and [Bash scripting cheatsheet](#).

"Hello World" using **echo**.

SHELL

```
#!/bin/sh  
echo "Hello World"
```

Read user interactive input

SHELL

```
#!/bin/sh  
echo "What is your name?"  
read NAME  
echo "Hello, $NAME"
```

Read parameters from command lines: ./script.sh 3 alpha

SHELL

```
#!/bin/sh  
echo $1 $2  
echo $@
```

Array Variables: all shell variables are capitalized

```
#!/bin/sh
NAME[0]="Zara"
NAME[1]="Qadir"
NAME[2]="Mahnaz"
NAME[3]="Ayan"
NAME[4]="Daisy"
echo "names: ${NAME[*]}"
for ITEM in ${NAME[*]}
do
    echo $ITEM
done
```

Math expression using backtick `expr`

```
#!/bin/sh
val=`expr 2 + 2`
echo "Total value : $val"
```

Flow: making decision if. elif. else

```
#!/bin/sh
NAME[0]="Zara"
NAME[1]="Qadir"
NAME[2]="Mahnaz"
NAME[3]="Ayan"
NAME[4]="Daisy"
echo "names: ${NAME[*]}"

for ITEM in ${NAME[*]}
```

```
do
    echo $ITEM
    if [ $ITEM == "Ayan" ]
    then
        break
    fi
done
```

Loop: while, for, until

SHELL

```
#!/bin/sh
a=0
while [ $a -lt 10 ]
do
    echo $a
    if [ $a -eq 5 ]
    then
        break
    fi
    a=`expr $a + 1`
done
```

Define a function

SHELL

```
#!/bin/sh
Hello () {
    echo "Hello World $1 $2"
}
Hello Zara Ali
```

