

Shell Loops

- **While Loop**

Syntax

```
while command
do
    Statement
done
```

i.e.

```
#!/bin/sh

a=0

while [ $a -lt 10 ]
do
    echo $a
    a=`expr $a + 1`
done
```

- **For Loop**

Syntax

```
for var in word1 word2 ... wordN
do
    Statement
done
```

i.e.

```
#!/bin/sh

for i in 0 1 2 3 4 5 6 7 8 9
do
    echo $i
done
```

OR

```
for (( Condition ))
```

do

Statement

done

i.e.

```
#!/bin/sh

for (( i=0 ; i<10 ; i++ ))
do
    echo $i
done
```

- **Until Loop**

Syntax

until command

do

Statement(s) to be executed until command is true

done

i.e.

```
#!/bin/sh

a=0

until [ ! $a -lt 10 ]
do
    echo $a
    a=`expr $a + 1`
done
```

Loop Control

i.e.

```
#!/bin/sh
```

```
a=10

until [ $a -lt 10 ]
do
    echo $a
    a=`expr $a + 1`
done
```

- **Break Statement**

i.e.

```
#!/bin/sh

a=0

while [ $a -lt 10 ]
do
    echo $a
    if [ $a -eq 5 ]
    then
        break
    fi
    a=`expr $a + 1`
done
```

- **Continue Statement**

i.e.

```
#!/bin/sh

NUMS="1 2 3 4 5 6 7"

for NUM in $NUMS
do
    Q=`expr $NUM % 2`
    if [ $Q -eq 0 ]
    then
        echo "Number is an even number!!"
        continue
    fi
done
```

```
fi  
echo "Found odd number"  
done
```