

# Looping Statement

loop is a bash programming language statement which allows code to be repeatedly executed. A loop is classified as an iteration statement i.e. it is the repetition of a process within a bash script.

## Until Loop

The until loop is useful when you need to execute a set of commands until a condition is true.

### Syntax

```
until [ condition ]
do
    statement 1
    statement 2
done
```

### Example

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

---

## While Loop

The while loop enables you to execute set of commands repeatedly until some condition occurs. it usually used when you need to manipulate the value of a variable repeatedly.

### Syntax

```
while [ condition ]
do
    statement 1
    statement 2
done
```

### Example

```
i = 1
while [ $i -le 10 ]
do
    echo $i
```

```
        i = `expr $i + 1`  
done
```

---

## For Loop

a for loop is a bash programming language statement which allows code to be repeatedly executed

### Syntax

```
for [ variable_name ] in ...  
do  
    statement 1  
    statement 2  
    statement n  
done
```

### Example

```
for no in {1..10}  
do  
    echo $no  
done
```