## FOR Loop

This lesson discusses for loops, including, for loop without a statement using examples and their use as an alternative to the while loop in Go

#### WE'LL COVER THE FOLLOWING

- Comparison with Other Languages
- for Loop Syntax
- For Loops Without Statements
- For loop as an Alternative to While
- Infinite Loops

#### Comparison with Other Languages

Go has only one looping construct, the for loop. The basic for loop looks as it does in C or Java, except that the ( ) are gone (they are not even optional) and the { } are required. As in C or Java, you can leave the pre and post statements empty.

### for Loop Syntax #

• Example of a for loop:

```
package main
import "fmt"

func main() {
        sum := 0
        for i := 0; i < 10; i++ {
            sum += i
        }
        fmt.Println(sum)
}</pre>
```







## For Loops Without Statements #

• Example of a for loop without pre/post statements:



# For loop as an Alternative to While #

• Using a for loop like a while loop is used:

## Infinite Loops #

• Infinite for loop:

```
package main
func main() {
```

```
for {
  // do something in a loop forever
}
}
```

Now that we have covered the usage of for loop in Go, we will discuss another popular control flow feature, switch statements.