LUA - REPEAT...UNTIL LOOP

Unlike the **for** and **while** loops, which test the loop condition at the top of the loop, the **repeat...until** loop in Lua programming language checks its condition at the bottom of the loop.

A **repeat...until** loop is similar to a while loop, except that a do...while loop is guaranteed to execute at least one time.
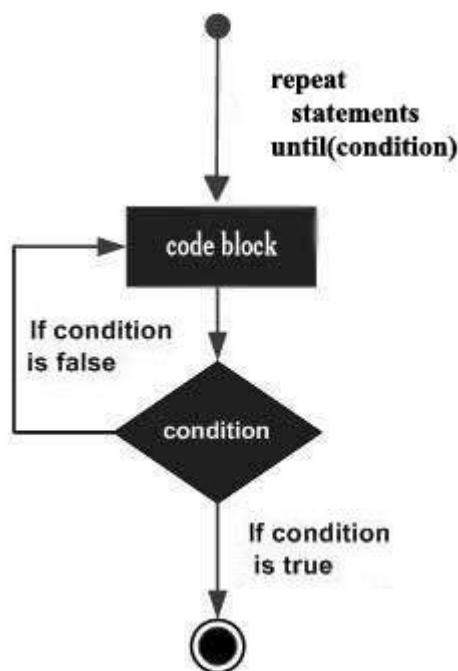
Syntax

The syntax of a **repeat...until** loop in Lua programming language is as follows −

```
repeat
    statement(s)
while( condition )
```

Notice that the conditional expression appears at the end of the loop, so the statements in the loop executes once before the condition is tested.

If the condition is false, the flow of control jumps back up to **do,** and the statements in the loop execute again. This process repeats until the given condition becomes true.

Flow Diagram

Example

```
--[ local variable definition --]
a = 10

--[ repeat loop execution --]
repeat
   print("value of a:", a)
   a = a + 1
until( a > 15 )
```

When you build and execute the above program, it produces the following result −

```
value of a: 10
value of a: 11
value of a: 12
```

```
value of a: 13
value of a: 14
value of a: 15
```