

Julia While Loop – Syntax and Examples

Julia While Loop

Julia while loop is used to iterate a set of statements over a collection of elements, like an array.

In this Julia Tutorial, we will learn how to write While Loop in Julia programs with examples.

Syntax – While Loop

The syntax of While loop in Julia is

```
while boolean_expression
    statement(s)
end
```

where `while` and `end` are keywords.

Example 1 – While Loop to count

In this example, we use a while loop to print the numbers from 1 to 4.

script.jl

```
n = 0
while n < 4
    n += 1
    println(n)
end
```

Output

```
1
2
3
4
```

Example 2 – Julia While Loop with String Array

In this example, we will use the while loop to greet all the guests, whose names are stored in a string array.

script.jl

```
guests = ["Ted", "Robyn", "Barney"]

i = 1
while i <= length(guests)
    friend = myfriends[i]
    println("Hi $friend, good to see you!")
    i += 1
end
```

Output

```
Hi Ted, good to see you!
Hi Robyn, good to see you!
Hi Barney, good to see you!
```

Example 3 – Julia While Loop to Find Factorial

In this example, we will use the while loop to find the factorial of a number.

script.jl

```
n = 0
result = 1
while n < 4
    n += 1
    result *= n
end
println(result)
```

Output

Conclusion

In this [Julia Tutorial](#), we learned the syntax and usage of While Loop in Julia, with the help of example scripts.

Julia Basics

◆ Julia Variables

◆ Julia Arithmetic Operators

◆ Julia Bitwise Operators

◆ Julia For Loop

⇒ Julia While Loop

◆ Julia Comments

◆ Julia Strings

Julia Mathematical Functions

◆ Julia Plots

◆ Julia Save Plot as JPG or PNG

Julia Mathematical Functions

◆ Julia Square Root

◆ Julia Cube Root

◆ Julia Hypotenuse

◆ Julia Exponential