

How to Filter Characters of String in Kotlin?

Kotlin – Filter Characters of String

To filter characters in a String in Kotlin, use `String.filter()` method.

Given a string `str1`, and if we would like to filter the characters of this string using a predicate (some condition) `predicate`, call `filter()` method on string `str1` and pass the predicate `predicate` as argument to the method as shown below.

```
str1.filter(predicate: (Char) -> Boolean)
```

`filter()` method returns a filtered String value based on the predicate.

Example 1 – Filter only Digits From String

In this example, we will take a string in `str1`, and filter only digits using `String.filter()` method.

Kotlin Program

```
fun main(args: Array<String>) {  
    val str1 = "abcd 125 e77fg ABCD"  
    val result = str1.filter({ it -> it.isDigit() })  
    println("Filtered String : " + result)  
}
```

Output

```
Filtered String : 12577
```

Example 2 – Filter only Letters From String

In this example, we will take a string in `str1`, and filter only letters using `String.filter()` method.

Kotlin Program

```
fun main(args: Array<String>) {  
    val str1 = "abcd 125 e77fg ABCD"
```

```
val result = str1.filter({ it -> it.isLetter() })
println("Filtered String : " + result)
}
```

Output

```
Filtered String : abcdefgABCD
```

Example 3 – Filter only Uppercase Letters From String

In this example, we will take a string in `str1`, and filter only uppercase letters using `String.filter()` method.

Kotlin Program

```
fun main(args: Array<String>) {
    val str1 = "abcd 125 e77fg ABCD"
    val result = str1.filter({ it -> it.isUpperCase() })
    println("Filtered String : " + result)
}
```

Output

```
Filtered String : ABCD
```

Conclusion

In this [Kotlin Tutorial](#), we learned how to filter the characters of give String, using `String.filter()` method, with the help of Kotlin example programs.

Kotlin Java

- ◆ [Kotlin Tutorial](#)

Getting Started

- ◆ [Setup Kotlin\(Java\) Project](#)

- ◆ [Kotlin Example Program](#)

- ◆ [Convert Java to Kotlin](#)

- ◆ [Kotlin Main Function](#)

- ◆ [Kotlin Loops](#)

- ◆ [Kotlin For Loop](#)

- ◆ Kotlin While, Do While Loops
- ◆ Kotlin Repeat
- ◆ Kotlin Ranges
- ◆ Kotlin When

Object Oriented Concepts

Classes

- ◆ Kotlin - Class, Primary and Secondary Constructors
- ◆ Kotlin Sealed Class
- ◆ Kotlin Data Class
- ◆ Kotlin Enum
- ◆ Kotlin - Extension Functions

Inheritance

- ◆ Kotlin Inheritance
- ◆ Kotlin Override Method of Super Class

Abstraction

- ◆ Kotlin Abstraction
- ◆ Kotlin Abstract Class
- ◆ Kotlin - Interfaces
- ◆ Kotlin Null Safety

Exception Handling

- ◆ Kotlin Try Catch
- ◆ Kotlin Throw Exception
- ◆ Kotlin Custom Exception

Fix Compilation Errors

- ◆ Kotlin - Variable must be initialized
- ◆ Kotlin - Primary Constructor call expected
- ◆ Kotlin - Null can not be a value of a non-null type String
- ◆ Kotlin - Cannot create an instance of an abstract class

Kotlin - String Operations

- ◆ [Kotlin - Compare Strings](#)
- ◆ [Kotlin - Replace String](#)
- ◆ [Kotlin - Split String](#)
- ◆ [Kotlin - Split String to Lines](#)
- ◆ [Kotlin - String Capitalize](#)

Kotlin - Functions

- ◆ [Kotlin Function - Default Arguments](#)
- ◆ [Kotlin - Use Function](#)

Kotlin Collections

Kotlin List

- ◆ [Kotlin List](#)
- ◆ [Kotlin List forEach](#)

Kotlin File Operations

- ◆ [Kotlin - Create File](#)
- ◆ [Kotlin - Read File](#)
- ◆ [Kotlin - Read File as List of Lines](#)
- ◆ [Kotlin - Write to File](#)
- ◆ [Kotlin - Append Text to File](#)
- ◆ [Kotlin - Check if File Exists](#)
- ◆ [Kotlin - Copy a File to Other](#)
- ◆ [Kotlin - Iterate through all files in a directory](#)
- ◆ [Kotlin - Delete Recursively](#)
- ◆ [Kotlin - Get File Extension](#)

Kotlin Interview Q/A

- ◆ [Kotlin Interview Questions](#)

Kotlin Android

- ◆ [Kotlin Android Tutorial](#)

Useful Resources

- ◆ [How to Learn Programming](#)