Learn to extract Substring from a String in R programming language using substring() function.

Syntax of R substring function

\[
\text{substring}(c, \text{first}, \text{last})
\]

where :

- **c** is the string
- **first** is the starting position of substring (in the main string) to be extracted
- **last** is the ending position of substring (in the main string) to be extracted. last is optional, in which case last is taken as whole length of the string.

Example to extract Substring from a String in R

# Example R program to find substring

```r
str = 'Hello World! Welcome to learning R programming language'
subStr = substring(str, 13, 23)
print (subStr)
```

Output

```
$ Rscript r_strings_substring.R
[1] " Welcome to"
```

Example to extract Substring from a String in R without last position provided

# Example R program to find substring

```r
str = 'Hello World! Welcome to learning R programming language'
subStr = substring(str, 13)
print (subStr)
```

Output

```
$ Rscript r_strings_substring.R
[1] " Welcome to"
```
```r
# Example R program to find substring

str = 'Hello World! Welcome to learning R programming language'

#substring(c, first, last=nchar(c))
subStr = substring(str, 13)

print (subStr)
```

Output

```
$ Rscript
r_strings_substring.R

[1] "Welcome to learning R programming language"
```

**Conclusion :**

In this R Tutorial, we have learnt to find Substring from a String in R programming language using substring() function.
R Loops
- R repeat loop
- R while loop
- R for loop
- R break

Strings
- R Strings
  - Find length of String in R
  - Extract Substring from a String in R
  - Concatenate two or more Strings in R

Functions
- R Functions

DataFrame
- R Data Frame
  - Sort R Data Frame by Column
  - For each row in an R Data Frame
  - Import Excel Data into R Dataframe
  - Convert R Dataframe to Matrix
  - R Dataframe - Delete Rows
  - R Dataframe - Drop Columns
  - R Dataframe - Add Column
  - R Dataframe - Change Column Name
  - R Dataframe - Remove Duplicate Rows
  - R Dataframe - Replace NA with 0
  - Convert Matrix to R Dataframe

Handling Data from Files
- R CSV Files - Read, Filter, Write
- R Read Excel XLS XLSX files

Charts & Graphs
- R Pie Charts
- R Line Graphs

Statistical Analysis
- R Mean of a Vector
R Median of a Vector