ACADGILD

SESSION 4:
FOUNDATIONAL R PROGRAMMING-II

Assignment 2

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Table of Contents

1. Problem Statement 3

2. Solution 3

1. Problem Statement

1. x <- c('data.science.in.R','machine.learning.in.R')

Perform the below string operation:

- Replace the period character "." within each string with another character i.e. "-" minus sign.

2. x <- c('data.science.in.R','machine.learning.in.R')

Perform the below String operation:

- Append again with "-" minus sign character at the start of each string and finally concatenate all the string within the vector to form a final single string and assigning it to some object

2. Solution

1. x <- c('data.science.in.R','machine.learning.in.R')
Replace the period character "." within each string with another character i.e. "-" minus sign.

The R-script for the given problem is as follows:

```
x <- c('data.science.in.R', 'machine.learning.in.R')
x
gsub("\\.",'-', x)
```

Explanation:

- `gsub()` perform replacement of the first and all matches respectively.
- Here, gsub() replaces "." with "-" sign.

The output of the R-Script (from Console window) is given as follows:

```
> x <- c('data.science.in.R', 'machine.learning.in.R')
> x
[1] "data.science.in.R"     "machine.learning.in.R"

> gsub("\\.",'-', x)
[1] "data-science-in-R"     "machine-learning-in-R"
```

2. x <- c('data.science.in.R','machine.learning.in.R')
   Append again with "-" minus sign character at the start of each string and finally concatenate all the string within the vector to form a final single string and assigning it to some object

The R-script for the given problem is as follows:

```
x <- c('data.science.in.R','machine.learning.in.R')
x
y <- paste("-", x, collapse = "")
y
```

Explanation:

- paste( ) function concatenates vectors after converting to character.
- Here, paste() Appends with "-" minus sign character at the start of each string and finally concatenates all the string within the vector to form a final single string and assigning it to object named “y”

The output of the R-Script in console window is given as follows:

```
> x <- c('data.science.in.R','machine.learning.in.R')
> x
[1] "data.science.in.R"     "machine.learning.in.R"
> y <- paste("-", x, collapse = "")
> y
[1] "- data.science.in.R- machine.learning.in.R"
```