

# **ACADGILD**

# SESSION 4: FOUNDATIONAL R PROGRAMMING-II

Assignment 2

#### 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

#### **SOLUTION:**

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

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

- 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:

```
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 Assignment 4.2.R ×
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                                                                                                         ♦♦ Source
   1 # Assignment 4.2
   2 #Solution 1
     x <- c('data.science.in.R', 'machine.learning.in.R')</pre>
   6 #Perform the below string Operation:
   7 #Replace the period character "." within each string with another character i.e. "-" minus sign.
      gsub("\\.",'-', x)
  10
      (Top Level) $
                                                                                                                      R Script $
 Console Terminal ×
 F:/ACADGILD - Online Course/ACAD Working Directory/
 > x <- c('data.science.in.R', 'machine.learning.in.R')
 [1] "data.science.in.R" "machine.learning.in.R"
```

## 2. 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</pre>
```

- 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 (from Console window) is given as follows:

```
F:/ACADGILD - Online Course/ACAD Working Directory - RStudio
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Assignment 4.2.R* ×
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                                                                                                          Run 🐤 🕞 Source 🕶
  16 #Solution 2
  17
  18 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 the each string and finally concatenate all the
   22 #string within the vector to form a final single string and assigning it the object.
   24 y <- paste("-", x, collapse = "")
   25 y
   26
  14:1 (Top Level) $
                                                                                                                              R Script ¢
 Console Terminal ×
 F:/ACADGILD - Online Course/ACAD Working Directory/
 > x <- c('data.science.in.R', 'machine.learning.in.R')
 [1] "data.science.in.R"
                            "machine.learning.in.R"
     <- paste("-", x, collapse = "")
 [1] "- data.science.in.R- machine.learning.in.R"
```