

## SESSION 4: FOUNDATIONAL R PROGRAMMING-II

### Assignment 2

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

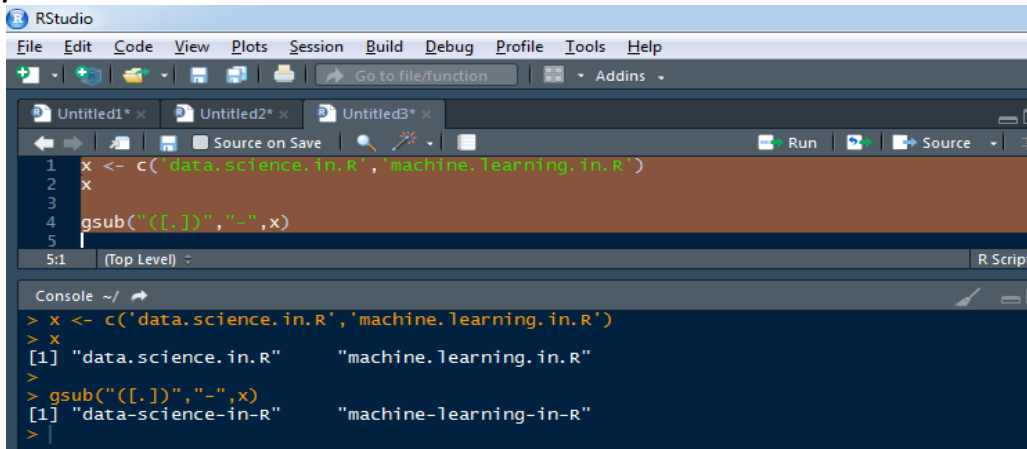
Perform the below string operation:

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

**Answer:**

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

**Output:**



```
RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
[Icons] Go to file/function Addins
[Icons] Run Source
1 x <- c('data.science.in.R','machine.learning.in.R')
2 x
3
4 gsub("[.]", "-", x)
5
5:1 (Top Level) R Script

Console ~/
> 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')`

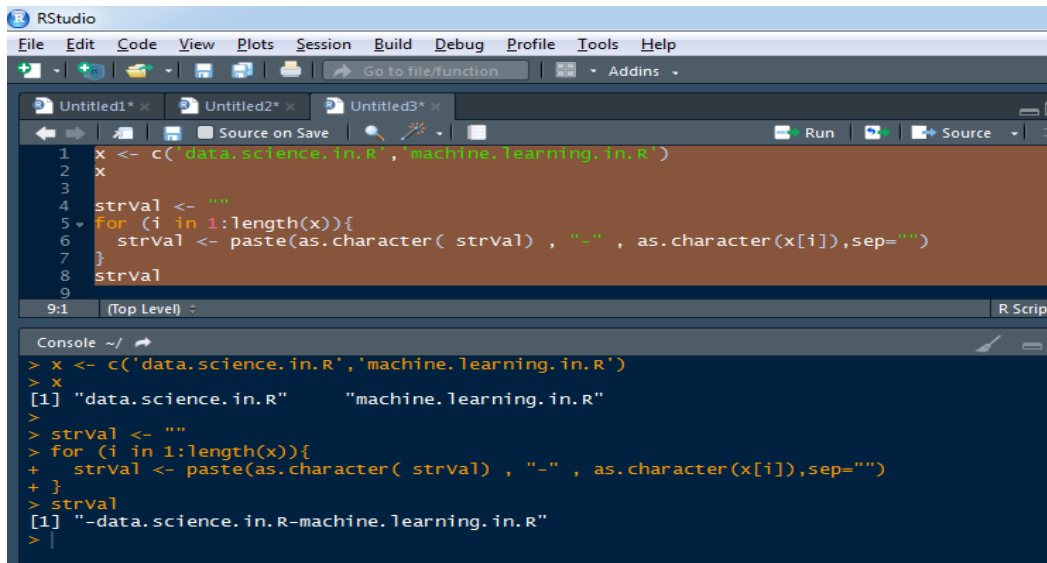
Perform the below String operation:

- 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

**Answer:**

```
x <- c('data.science.in.R','machine.learning.in.R')
x
strVal <- ""
for (i in 1:length(x)){
  strVal <- paste(as.character( strVal) , "-" , as.character(x[i]), sep="")
}
strVal
```

**Output:**



```
RStudio
File Edit Code View Plots Session Build Debug Profile Tools Help
[Icons] Go to file/function Addins
[Icons] Run Source
1 x <- c('data.science.in.R','machine.learning.in.R')
2 x
3
4 strVal <- ""
5 for (i in 1:length(x)){
6   strVal <- paste(as.character( strVal) , "-" , as.character(x[i]), sep="")
7 }
8 strVal
9
9:1 (Top Level) R Script

Console ~/
> x <- c('data.science.in.R','machine.learning.in.R')
> x
[1] "data.science.in.R" "machine.learning.in.R"
>
> strVal <- ""
> for (i in 1:length(x)){
+   strVal <- paste(as.character( strVal) , "-" , as.character(x[i]), sep="")
+ }
> strVal
[1] "-data.science.in.R-machine.learning.in.R"
>
```