TMC 204
Statistical Data Analysis with R
Unit 3
Exporting Data from R(Part 2)

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paste()

Description:

paste() converts its arguments to character strings and concatenates them.

Syntax:

paste(…, sep=“”, collapse=NULL)

Returns:

Character Vector

Documentation:

help(paste)

Example 1:

```
> x<-1:10
> paste(x)
 [1] "1"  "2"  "3"  "4"  "5"  "6"  "7"  "8"  "9"  "10"
> paste(x,collapse="NULL")
[1] "1NULL2NULL3NULL4NULL5NULL6NULL7NULL8NULL9NULL10"
> paste(x,collapse="")
[1] "12345678910"
```

Example 2:

```
> x<-LETTERS
> x
 [1] "A" "B" "C" "D" "E" "F" "G" "H" "I" "J" "K" "L" "M" "N" "O"
[16] "P" "Q" "R" "S" "T" "U" "V" "W" "X" "Y" "Z"
> paste(x)
 [1] "A" "B" "C" "D" "E" "F" "G" "H" "I" "J" "K" "L" "M" "N" "O"
[16] "P" "Q" "R" "S" "T" "U" "V" "W" "X" "Y" "Z"
> paste(x,collapse="")
[1] "ABCDEFGHIJKLMNOPQRSTUVWXYZ"
```

Example 3:

```
> name<-"Aditya"
> age<-35
> paste(name,age)
[1] "Aditya 35"
> paste(name,age,sep=",")
[1] "Aditya,35"
> paste(name,age,sep="")
[1] "Aditya35“
```

Example 4:

```
> alpha<-LETTERS[1:4]
> numeric<-1:4
> alpha_numeric<-paste(alpha,numeric)
> alpha_numeric
[1] "A 1“ "B 2" "C 3" "D 4“
> alpha_numeric<-paste(alpha,numeric,sep="")
> alpha_numeric
[1] "A1" "B2" "C3" "D4"
```

paste0()

Description:

paste0() it does a same job as paste() but with a blank seperator.

Syntax:

paste0(..., collapse=NULL)

Returns:

Character Vector of concatenated values

Documentation:

help(paste0)

Example 1:

```
> alpha<-LETTERS[1:4]
> numeric<-1:4
> alpha_numeric<-paste0(alpha,numeric)
> alpha_numeric
[1] "A1" "B2" "C3" "D4“
```

Example 2:

```
> name<-"Aditya"
> age<-35
> paste0(name,age)
[1] "Aditya35"
> paste(name,age)
[1] "Aditya 35“
> paste(name,age,sep="")
[1] "Aditya35"
```

sprintf()

Description:

sprintf() it returns a character vector containing text and objects

Syntax:

sprintf()(fmt, …)

Returns:

Character Vector

Documentation:

help(sprintf)

Example 1:

```
> name<-"Aditya"
> age<-35
> sprintf("your name is %s and you are %d years old",name,age)
[1] "your name is Aditya and you are 35 years old“
```

%s is replaced by value in name and %d is replaced by value in age

s indicates string type and d indicated integer type

Output Data to file

In this section we will learn the use of following functions in next lecture :

- writeLines
- write
- write.table
- write.csv
- sink
- dump

Sources of lecture: Slideshare:r-squared.in