PP4RS | R Module

Slot 2 - Additional Exercises

Dora Simon

06.09.2018

Slot 2

Exercises Loops

Create the dataframe my_df <- data.frame(a = rnorm(10), b = rnorm(10), c = rnorm(10), d = rnorm(10)). Print the median of column a.

```
## [1] -0.2215841
```

Exercises Loops

Create the dataframe my_df <- data.frame(a = rnorm(10), b = rnorm(10), c = rnorm(10), d = rnorm(10)). Print the median of column a.

```
## [1] -0.2215841
```

Print the sentence "Median for variable a is: X.XXXXX", where X.XXXXX is the actual median of a.

(hint: use the cat function, the names function and subsetting with square brackets)

```
cat("Median for variable ", names(my_df)[[1]], " is: ",
    median(my_df$a), sep='')
```

```
## Median for variable a is: -0.2215841
```

Exercises Loops

Print the sentence "Median for variable p is: X.XXXXX", where X.XXXXX is the actual median of p for each value p of our data frame (so for a, b, c, d).

(hint: use your result from above and make a loop out of it)

```
for (name in names(my_df)) {
   cat("Median for variable ", name, " is: ",
        median(my_df[[name]]), '\n', sep='')
}

## Median for variable a is: -0.2215841
## Median for variable b is: -0.1583671
## Median for variable c is: -0.1061311
## Median for variable d is: 0.425925
```