```
• • •
 name <- c("alice", "BOB", "Charlie", "DIANA")
 pasted names
        median = median(vectors),
standard_deviation = sd(vectors)
#generate 20 numbers
random_numbers <- rnorm(20)</pre>
 random_numbers < rindim(20)
#calling the function and assigning its returning list to a variable then printing it random_numbers
mean_median_sd <- get_mean_median_sd(random_numbers)
mean_median_sd
#3.

#3. creating a function that will classify numbers

classify <- function(num) {

# Handle when there is no number passed to the function

if (length(num) == 0)

return "There is no number to classify"
     sapply(num, function(x) {
   if (is.na(x)) {
     "NA"
        "NA"

} else if (x > 0) {

"Positive"

} else if (x < 0) {

"Negative"

} else {

"Zero"
#provide dataset with NA to test if the function can handle it number <- c(-1, 2,0, 28, NA, 21) numbers <- classify(number)
# create a list that only contains scores higher the 80
scores_above80 <- scores[scores > 80]
scores_above80
# use the mean() function to get the average
average <- mean(scores_above80)</pre>
 # Recursive Fibonacci function
fibonacci_calculator <- function(N){
    fibonacci <- c(0,1)
count <- 2
    while (count < N){
  length <- length(fibonacci) + 1
  result <- fibonacci[length-1] + fibonacci[length-2]
  fibonacci <- append(fibonacci, result)
  count <- count + 1</pre>
 fibonacci_calculator(5)
fibonacci_calculator(10)
```

```
> title_case_names <- tools::toTitleCase(tolower(name))</pre>
> title_case_names
[1] "Alice" "Bob"
                           "Charlie" "Diana"
> mean_median_sd
$mean
[1] -0.01428208
$median
[1] -0.06467525
$standard deviation
[1] 0.9293291
> #provide dataset with NA to test if the function can handle it
> number <- c(-1, 2,0, 28, NA, 21)
> numbers <- classify(number)</pre>
numbers
[1] "Negative" "Positive" "Zero" "Positive" "NA"
                                                     "Positive"
> # create a list that only contains scores higher the 80
scores_above80 <- scores[scores > 80]
scores_above80
[1] 85 90 95 88
# use the mean() function to get the average
> average <- mean(scores_above80)</pre>
> average
[1] 89.5
> fibonacci_calculator(5)
[1] 3
> fibonacci_calculator(10)
```

[1] 34