Ezra-_lab_1.R

Student

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```r
1 + 2 + 3 + 4 + 5 + 6 + 7 + 8 + 9 + 10
```

```
## [1] 55
```

```r
# adds all numbers from 1 to 10
list <- c(1,2,3,4,5,6,7,8,9,10)
# creates vector "list" with all numbers from 1 to 10
sum(list)
```

```
## [1] 55
```

```r
# adds all numbers in list
newlist <- list + 10
# creates new list with each element being ten higher
# than in list and assigns them to vector "newlist"
newlist
```

```
##  [1] 11 12 13 14 15 16 17 18 19 20
```

```r
# calls newlist
sum(newlist)
```

```
## [1] 155
```

```r
# adds all numbers in newlist
sum(c(1:100))
```

```
## [1] 5050
```

```r
# adds all numbers from 1 to 100 without assigning
# them to any variable
list
```

```
##  [1]  1  2  3  4  5  6  7  8  9 10
```

```r
# calls list again
mean(list)
```

```
## [1] 5.5
```

```r
# finds the average of list
median(list)
```

```
## [1] 5.5
```

```r
# finds the median of list
max(list)
```

```
## [1] 10
```

```r
# finds the maximum of list
min(list)
```

```
## [1] 1
```

```r
# finds the minimum of list
length(list)
```

```
## [1] 10
```

```r
# finds the length of list
list > 5
```

```
##  [1] FALSE FALSE FALSE FALSE FALSE  TRUE  TRUE  TRUE  TRUE  TRUE
```

```r
# the first 5 numbers (1 through 5) aren't grater
#than 5 but the last 5 are (6 through 10)
bignum <- list[list > 5]
bignum
```

```
## [1]  6  7  8  9 10
```

```r
# it only takes the numbers at an index where the
# command list > 5 was true
?mean
```

```
## starting httpd help server ... done
```

```r
help(mean)

#?if
#help(if)
#?control
#help(control)
# I had to tag all of this for it to work when compiling it
# none of these are working but I know what they are

if (sum(list) > 40) print("the sum is greater than 40")
```

```
## [1] "the sum is greater than 40"
```