

1. If `Newlist <- list(a=1:10, b="Good morning", c="Hi")`, write an R statement that will add 1 to each element of the first vector in `Newlist`.

Code	Solution
<code>Newlist <- list(a=1:10, b="Good morning", c="Hi")</code> <code>Newlist\$a+1</code>	<code>> Newlist <- list(a=1:10, b="Good morning", c="Hi")</code> <code>> Newlist\$a+1</code> [1] 2 3 4 5 6 7 8 9 10 11

2. Let `x <- list(a=5:10, c="Hello", d="AA")`, write an R statement to add a new item `z = "NewItem"` to the list `x`

Code	Solution
<code>x <- list(a=5:10, c="Hello", d="AA")</code> <code>x\$z<-"NewItem"</code> <code>x</code>	<code>> x <- list(a=5:10, c="Hello", d="AA")</code> <code>> x\$z<-"NewItem"</code> <code>> x</code> \$a [1] 5 6 7 8 9 10 \$c [1] "Hello" \$d [1] "AA" \$z [1] "NewItem"

3. Consider `y <- list("a", "b", "c")`, write an R statement that will assign new names "one", "two" and "three" to the elements of `y`

code	solution
<code>y <- list("a", "b", "c")</code> <code>names(y)<-c("one", "two", "three")</code> <code>y</code>	<code>> y <- list("a", "b", "c")</code> <code>> names(y)<-c("one", "two", "three")</code> <code>> y</code> \$one [1] "a" \$two [1] "b" \$three [1] "c"

4. `DerivativeFunction <- function(x) { log10(x) + 1`
Apply the "DerivativeFunction" to `list1`