Assignment:

```
x <- 3 # This is a comment
```

Creating vectors

```
c(10, 12, 14, 20): creates atomic vector with given numbers
1:7 creates vector with numbers 1 through 7
runif(n,0,1): creates vector with n random numbers uniformly distributed between 0 and 1
```

Vector operations

```
a+b, a-b, a*b, a/b: element-wise operations
a>3: element-wise comparison (returns boolean vector)
sqrt(a): compute element-wise sqrt
```

Vector indexing and "slicing" (R is 1-indexed, i.e. indexing starts at 1)

```
a[1]: first element of vector
a[3:5]: selects elements 3, 4, 5
a[a > 3]: selects elements that satisfy predicate, e.g. where vector a>3 is TRUE
```

Functions

```
print(x): prints x
length(x): number of elements in vector
sum(x), max(x), min(x), mean(x): compute sum, max, min, mean of vector
```

Defining functions

```
# example function in R: adds two numbers together
my_add <- function(a, b) { return (a+b) }
```