## **Entering Input**

At the R prompt we type expressions. The <- symbol is the assignment operator.

```
> x <- 1
> print(x)
[1] 1
> x
[1] 1
> msg <- "hello"</pre>
```

The grammar of the language determines whether an expression is complete or not.

```
> x <- ## Incomplete expression
```

The # character indicates a comment. Anything to the right of the # (including the # itself) is ignored.

## **Evaluation**

When a complete expression is entered at the prompt, it is evaluated and the result of the evaluated expression is returned. The result may be auto-printed.

```
> x <- 5 ## nothing printed
> x ## auto-printing occurs
[1] 5
> print(x) ## explicit printing
[1] 5
```

The [1] indicates that x is a vector and 5 is the first element.

## **Printing**

```
> x <- 1:20
> x
[1] 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
[16] 16 17 18 19 20
```

The: operator is used to create integer sequences.