

Debugging

A code becomes seldom correct from the first attempt, and finding a mistake can be tricky without debugging. In R, there is a possibility to debug functions that you write yourself. Therefore, if you want to debug some code, put it into a function, for ex:

```
myfunction=function(X){  
  a=X^2  
  b=X+rnorm(1)  
  return(list(a,b))  
}
```

Simplest way to debug a function is to use **debug()**, i.e. type **debug(myfunction)** in the RStudio console. After you are done with debugging, type **undebug(myfunction)**

If you want to insert a breakpoint into some function, use function **browser()**:

```
myfunction=function(X){  
  a=X^2  
  b=X+rnorm(1)  
  browser() #Here we have a breakpoint  
  return(list(a,b))  
}
```