

```
#####
## 6. CONTROL WORKFLOW and CUSTOM FUNCTIONS
#####
Shop = read.table("http://edu.sablab.net/data/txt/shop.txt",header=T,sep="\t")

a=1
b=2

##-----
## IF condition

if (a==b) {
  print("a equals to b")
} else {
  print("a is not equal to b")
}

## use if in-a-line
ifelse(a>b, a, b)

##-----
## FOR loop

## print all information for the first client
for (i in 1:ncol(Shop))
  print(Shop[1,i])

##-----
## WHILE loop

## print all information for the first client
i=1;
while (i <= ncol(Shop)){
  print(Shop[1,i])
  i=i+1
}

##-----
## REPEAT loop
i=1
repeat {
  print(i)
  i=i+1
  if (i>10) break
}
## "break" and "next" - help to control flow

##-----
## Custom functions
##-----

## Let us write a function to print vectors
printVector = function(x, name=""){
  print(paste("Vector",name,"with",length(x),"elements:"))
  if (length(x)>0)
    for (i in 1:length(x))
      print(paste(name,"[",i,"] =",as.character(x[i])))
}

printVector(Shop$Payment, "Payment")
```

```
##-----  
## Run script, saved in other files  
##-----  
  
source("http://sablabs.net/scripts/LibMA.r")  
  
ls()
```