Lab Assignment 6

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## 1. Hello World

hello <- function() {  
 print("Hola Munda")  
}  
  
hello()

## [1] "Hola Munda"

## 2. Function Arguments

hello.friend <- function(firstName, lastName) {  
 print(glue("Hola {firstName} {lastName}"))  
}  
  
hello.friend(firstName = "Michael", lastName = "Beebe")

## Hola Michael Beebe

hello.friend2 <- function(firstName, lastName = "Beebe") {  
 print(glue("Hola {firstName} {lastName}"))  
}

hello.friend2(firstName = "Michael")

## Hola Michael Beebe

hello.friend2(firstName = "Michael", lastName = "Jordan")

## Hola Michael Jordan

## 3. Function Arguments and Return Values

calc.percent <- function(i) {  
 percent <- round(i, digits = 1)  
 result <- glue("{percent \* 100}%")  
 return(result)  
}

numbers <- c(0.555, 0.265, 0.755, 0.335, 0.995, 1.555)

p <- calc.percent(numbers)  
p

## 60%  
## 30%  
## 80%  
## 30%  
## 100%  
## 160%

## 4. do.call

Part 1

do.call(  
 what = hello.friend,  
 args = list("Bob", "Ross"),  
 quote = TRUE  
)

## Hola Bob Ross

Part 2

math.fun <- function(x, func = mean) {  
 do.call(  
 what = func,  
 args = list(x),  
 quote = TRUE  
 )  
}

math.fun(x = numbers)

## [1] 0.7433333

math.fun(x = numbers, func = sum)

## [1] 4.46

math.fun(x = numbers, func = max)

## [1] 1.555

math.fun(x = numbers, func = min)

## [1] 0.265

math.fun(x = numbers, func = sd)

## [1] 0.4802673