Markdown\_lab2

mmz

1/12/2022

# R Markdown for Lab 2

Install.packages(‘knitr’)

## Chapter 8 (Functions)

### 1) Write a function ‘f’ that behaves like this:

’’‘{f(’Jim’)} ’’’{“hello Jim, how are you?” f=function(name){ paste(“hello”,name,“how are you?”) } f(“Jim”)}

### 2) Write a function ‘sumOfSquares’ that behaves like this:

d <- c(1,5,2,4,6,2,4,5) sumOfSquares(d)= 21.875

’’’{d=c(1,5,2,4,6,2,4,5) mv=mean(d) sumOfSquares=function(y,yy){ y=mv - d yy=(y^2) sum(yy) } sumOfSquares(d)}

Finially, the method of computation for sum of squares is described: “To compute the”sum of squares”, subtract the mean value of all numbers from each number. Square these numbers and sum them” and also notes “(stretch goal: make a variant that can handle NA values - no extra points, just a challenge)”

## Chapter 10 (Flow control)

To demonstrate if-loops introduced in this chapter, we are asked to sum sequences according to the following directions:

### 3) Write a for loop that adds the numbers 1 to 10

’’’{x=0 for (i in 1:10){ x=x+i } x print(x)}

The final print command here will yield a final answer of 55.

### 4) Write a for loop that adds the odd numbers between 1 and 10

’’’{y=0 for (i in 1:10) { if (i %% 2) y=y+i } print(y)}

Here the double %% sign indicates divison. The final command indicates that the sum of odd numbers between 1 and 10 is equal to 25.