Lab 1: R Fundamentals 1

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Eco 602 Lab-

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c_1= c(1,2,3)
c_1
c_2= "c (1,2,3)"
c_2
#Q1: The outputs are different because c_2 is a string.
#Q2&3: c_1 is a function because it does not have quotation marks
#and c_2 is a variable because it does have the quotation mark
#Q4: The values are different because the "" read as a string.
#it does not complete an action
my_vec= 1:3
mat_1=matrix(my_vec)
mat_1
#Q5:The dimensions of the matrix are 3 rows and 1 columns
#Q6:The R code to retrieve the element of mat_1 that has a value of
# 3 is mat_1==3. This shows what values are 3 using TRUE and FALSE.
mat_1== 3
mat_1[3]
#Q7
mat_2= matrix(my_vec, nrow= 2, ncol=3)
mat_2
#Q8
mat_3= matrix(my_vec, nrow=3, ncol=2)
mat_3
#Q9: R uses the columns to recycle the values in my_vec
#Q10:
mat_4= matrix(my_vec, nrow= 2, ncol=4)
mat_4
#Q11: #I changed my rows to 2 and the columns to 4.
#This gave me an warning message but I was able to create a matrix
#that is not a multiple of 3.
#Q12
my_list_1= list(5.2, "five point two",0:5)
my_list_1
names(my_list_1)= c("two", "one","three")

my_list_1[[1]] #5.2
my_list_1[[as.numeric("1")]] #5.2
my_list_1[["1"]] #NULL
my_list_1[["one"]] #NULL
my_list_1$"one" #"five point two"
my_list_1$1 #error
```

```
my_list_1$"1" #Null

#Q13
#The lines my_list_1$"one" produced "five point two" because we named "five point five"
# "one" and that action is finding "one"

#Q14
#The lines my_list_1$"1" and my_list_1[["one"]]
#all produced the output NULL because the values were not defined.
```