Lab 1-R Fundamentals 1

Q1: They are different because the first code are instructions for are, where the second code just copies it, R doesn't try to figure out what it means.

Q2: c_1 is a function. I know this because **without** quotations, R has a set of instructions to follow.

Q3: c_2 is a variable. I know this because **with** quotations R has no instructions and will not try to determine what to do with the information, it will just print it.

Q4: They have different values because one is a function and one is a variable, only he function will run in R.

Q5: This matrix has three columns and one row.

Q6: mat_1 = matrix(1:3)

Q7: mat_2 = matrix(v_1, byrow = 2, ncol = 3)

Q8: mat_2 = matrix(v_1, byrow = 3, ncol = 2)

Q9: R used rows

Q10: mat_4 = matrix (5,7,8,11)
mat_4

Q11: It gave me more rows than columns

Q12: A- returned 5.2
B- numeric
C- the list gave R set of instructions with different elements

```
my_list_1 = lists(5.2, "five point two", 0:5)
my_list_1
names(my_list_1) = c("two", "one", "three")

my_list_1[[1]]
my_list_1[[as.numeric("1")]]
my_list_1[["1"]]
my_list_1[["one"]]
my_list_1$one
my_list_1$"one"
my_list_1$1
my_list_1$”1”

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

```
[1] "five point two"
> my_list_1$"one"
[1] "five point two"
> my_list_1$1
Error: unexpected numeric constant in "my_list_1$1"
> my_list_1$"1"
NULL
>
```

Q13: Lines and two because both were numeric elements.

Q14: Lines 4 and 8 produced null because the elements I used were not defined.