Rosalyn Bathrick

Assignment 1: DataCamp, Intro to R

* **Q1 (1 pt.):** What type of data is contained in the variable a?

Character

* **Q2 (1 pt.):** What type of data is contained in the variable b1?

Numeric

* **Q3 (1 pt.):** What type of data is contained in the variable b2?

Character

* **Q4 (2 pts.):** Explain what happens when you try to add b1 and b2 and why.

There is an error because the data types are not the same - character and numeric

* **Q5 (1 pt.):** Are the variables b1 and c1 the same type? Why or why not?

b1 is numeric, c1 is a vector, but they contain the same type of data

* **Q6 (3 pts.):** Explain what happens when you add b1 and c1. Consider both the number of elements in each variable and the data types.

All the numbers are added – b1 and each integer in c1.

* **Q7 (1 pt.):** Show the R code you used to create v1.

v1<--2:2

* **Q8 (1 pt.):** Show the R code you used to create v2.

v2<-v1\*3

* **Q9 (1 pt.):** Show the R code you used to calculate the sum of elements in v2

sum(v2)

* **Q10 (1 pt.):** Show the code you used to create mat\_1.

vec\_4<-1:12

mat\_1<-matrix(vec\_4, nrow=3, byrow=TRUE)

* **Q11 (1 pt.):** Show the code you used to create mat\_2.

mat\_2<-matrix(vec\_4, nrow=3, byrow=FALSE)

* **Q12 (2 pts.):** Show the R code you used to create my\_list\_1.

my\_list\_1<-c(5.2, "five point two", 0:5)

my\_list\_1<-list(two=5.2, one="five point two", three=0:5)

* **Q13 (1 pt.):** Show valid R code that selects the third element of the list.

my\_list\_1[[3]]

[1] 0 1 2 3 4 5

* **Q14 (1 pt.):** Show the R code that selects the list element with the name “one”. Note: there are at least two ways to do this!

my\_list\_1$one

[1] "five point two"

* **Q15 (3 pts.):** Show the R code that you used to create my\_bool\_vec.

my\_bool\_vec<-my\_vec==3

* **Q16 (2 pts.):** Show the R code that you used to subset my\_vec using my\_bool\_vec.

my\_vec[my\_bool\_vec[TRUE]]