Multiple Regression Assignment

YOUR NAME HERE

# Multiple Linear Regression (Q ~ Q + B)

## 1. Identify variables

* Quantitative response variable ():
* Quantitative explanatory variable ():
* Covariate (controlling variable) ():

## 2. Write the mathematical model

## 3. Fit the multivariable model

## 4. Interpret each regression coefficient EXCEPT the intercept.

* :
* :

# Logistic Regression (logit(B) ~ Q + B)

## 1. Identify variables

* Binary response variable ():
* Explanatory variable ():
* Covariate (controlling variable) ():

## 2. Write the mathematical model

Since this is a binary outcome, make sure you use the correct logit transformation: .

## 3. Fit the Logistic regression model

## 4. Calculate and interpret the Odds Ratio estimates

# Categorical predictors (Q ~ Q + B + C)

## 1. Identify variables and their data types.

* Response variable ():
* Categorical predictor (in words):

Define each level of the categorical predictor: State what group is the reference group.

* Let be
* Let when
* let when
* The reference group is:

## 2. Write the mathematical model.

## 3. Fit the multivariable model.

## 4. Interpret each regression coefficient EXCEPT the intercept.

* :
* :
* etc…