## Homework 3

Due March 4, 2020 (by 11:59pm)

## Question 1:

Write a R program to get the mean of the first vector in list g (assign it to a1) and the mean of the first three elements of the first vector (assign it to a2) of the following list. Also write a program to extract the second and the third elements in list g.

```
g = list(g1 = c(-0.01, 1.72, -0.52, -1.23, -1.17, 1.08, -1.33, -0.34, 0.57, -0.61), g2 = "R Programming", <math>g3 = "HTML"
```

## Question 2:

Read in the hsb2 dataset from Blackboard, and then answer the following questions:

- 1. What is the average read score in the dataset (assign it to b1)?
- 2. What is the average read score for those who scored 50 or greater in math (assign it to b2)? Is it greater or smaller than the overall mean?
- 3. What is the average difference in math scores between individuals whose race is white and those whose race is not white (assign it to b3)?
- 4. Consider only those students whose ses is high. What is the average difference in math scores between individuals whose race is white and those whose race is not white (assign it to b4)?
- 5. What percentage of students went to public schools (assign it to b5)?
- 6. What percentage of students of low ses went to public schools (assign it to b6)?