STA 210: Lab 2

Your Name

Question 1

a

b

Question 2

```r
bikeshare <- bikeshare %>%
  mutate(holiday.new = as.factor(
    case_when (
    holiday==0 ~ "non-holiday",
    holiday==1 ~ "holiday",
)
)
)
```

```r
# Use the glimpse() function to confirm that bikeshare contains the variable holiday.n
```

Question 3

a

```r
# Graph the distributions of cnt for holidays versus non-holidays.
```

b

```r
# Calculate separate summary statistics to describe the distribution of cnt for holida
```

c

Question 4

a

```
holiday <- bikeshare %>% filter(holiday.new=="holiday")
#Create an object called non.holiday that includes only the days in the data set that
```

b

```
#Conduct a two-sample t ypothesis test to determine whether there is a significant dif
```

c

```
#Use the t.test() function to calculate a 99% confidence interval to estimate the mean
```

d

Question 5

a

```
# Conduct an ANOVA test to determine whether there is a significant difference between
```

b

c

Question 6