STA 210: Lab 2

Your Name

Question 1

 \mathbf{a}

b

Question 2

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

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

Question 3

 \mathbf{a}

Graph the distributions of cnt for holidays versus non-holidays.

b

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

 \mathbf{c}

b

Question 4

```
\mathbf{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
\mathbf{c}
#Use the t.test() function to calculate a 99% confidence interval to estimate the mean
\mathbf{d}
Question 5
\mathbf{a}
# Conduct an ANOVA test to determine whether there is a significant difference between
b
\mathbf{c}
Question 6
a
```