## Flipped Assignment 6

Group 5

2022/2/15

## Input data

```
setwd('G:/OneDrive - Texas Tech University/IE 5344 Statistical Data Analysis/Flipped Assignment 6')
data<-read.csv('data-table-B8.csv', header = TRUE)
colnames(data) <- c("x1","x2","y")</pre>
```

## Part a.

```
fit <-lm(y~x1+x2,data)
summary(fit)
##
## Call:
## lm(formula = y \sim x1 + x2, data = data)
## Residuals:
      Min
               1Q Median
                               3Q
## -9.7716 -4.1656 0.0802 3.8323 8.3349
## Coefficients:
               Estimate Std. Error t value Pr(>|t|)
## (Intercept) 1.109e+01 1.669e+00
                                   6.642 1.48e-07 ***
                                   8.823 3.38e-10 ***
## x1
              3.501e+02 3.968e+01
              1.089e-01 9.983e-03 10.912 1.74e-12 ***
## x2
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## Residual standard error: 4.782 on 33 degrees of freedom
## Multiple R-squared: 0.8415, Adjusted R-squared: 0.8319
## F-statistic: 87.6 on 2 and 33 DF, p-value: 6.316e-14
```

## Part b.

```
fit$coefficients
```

```
## (Intercept) x1 x2 ## 11.0869804 350.1192457 0.1089344 So, \hat{y}=11.087+350.119x_1+0.109x_2.
```