HW1

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```
x \leftarrow c(2, 5, 8, 11, 13, 15, 16, 18)
  <- c(-10, -9, -4, 0, 4, 5, 6, 8)
df <- data.frame(x, y)</pre>
head(df)
##
     X
## 1 2 -10
## 2 5 -9
## 3 8 -4
        0
## 4 11
## 5 13
## 6 15
dflm \leftarrow lm(y \sim x, df)
summary(dflm)
##
## Call:
## lm(formula = y ~ x, data = df)
##
## Residuals:
       Min
                  1Q
                     Median
                                    ЗQ
                                            Max
## -1.63636 -0.38636 -0.06818 0.32955 1.54545
##
## Coefficients:
               Estimate Std. Error t value Pr(>|t|)
## (Intercept) -13.50000
                            0.86405 -15.62 4.35e-06 ***
                            0.07091
                                    17.31 2.38e-06 ***
## x
                 1.22727
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 1.052 on 6 degrees of freedom
## Multiple R-squared: 0.9804, Adjusted R-squared: 0.9771
## F-statistic: 299.6 on 1 and 6 DF, p-value: 2.383e-06
```