```
mydata = read.table("CH01TA01.txt")
> x = mydata[,1]
> y = mydata[,2]
> dim(mydata)
                                                                                                                                                  T_0 = \frac{\beta_0 - 0}{5E(\beta_0)} = \frac{62.366}{26.177} = 2.382
      lm(y \sim x)
Call:
                                                                                                                                                  T_1 = \frac{\hat{\beta}_1 - o}{SE(\hat{\beta}_1)} = \frac{3.570}{0.347} = 10.290
 lm(formula = y \sim x)
Coefficients:
 (Intercept)
      output = lm (y \sim x)
                                                                                                                    Diog. of MIE(X,X)4
> summary(output)
 Call:
  lm(formula = y \sim x)
 Residuals:
                                                                                                                                                                 p-value = 2. P_r[t-dist > |T_0|]

f = 2 \times (|-pt(2.382,23))
                                      1Q Median
              Min
  -83.876 -34.088 -5.982 38.826 103.528
  Coefficients:
 Estimate Std. Error t value Pr(|t|)

(Intercept) \beta = 62.366 |t| = 26.177 |t| = 2.382 0.0259
                                    β = 3.570 \ = 0.347 = 10.290 4.45e-10 *** p-value = 2- Pr [t-dist > | Till]
 Residual standard error: 48.82 on 23 degrees of freedom
= \sqrt{\frac{1}{n+1}} = \sqrt{\frac{1}{n+1}}
Multiple R-squared: \sqrt{\frac{1}{n+1}} = 1 - (\frac{n+1}{n+1}) = 1
  F-statistic: 105.9 on 1 and 23 DF, p-value: 4.449e-10
                                                                                                                                                                                                                         = |-\frac{24}{23} \times \frac{54825}{307203}
                                                                                                                                                                                                                           = 0.8137756

\begin{cases}
F = 105.9 = \frac{MSR}{MSE} = 4 \\
F = T_1 = (10.290)^2
\end{cases}

                                                                                                                                                                   p-Value = P [F-dist > 105.88]
                                                                                                                                                                                             = 1- pf (105.88, 1, 23)
   > anova(output)
   Analysis of Variance Table
   Response: y
                                                                                                                                                                                                       R^2 = \frac{55R}{55T} = \frac{252378}{307203} = 0.8215
                       Df Sum Sq Mean Sq F value Pr(>F)

P = 1 252378 252378 105.88 4.449e-10 ***
    Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
                                 SST= 252378+54825 = 307203 = I (y; - y)2
```