```
x <- mtcars$cyl
y <- mtcars$hp
relation <-lm(y~x)
relation
summary(relation)
 > relation <- lm(y~x)
 > relation
 call:
 lm(formula = y \sim x)
 Coefficients:
 (Intercept)
      -51.05
                   31.96
 > summary(relation)
 call:
 lm(formula = y \sim x)
 Residuals:
           1Q Median 3Q Max
    Min
 -54.61 -25.99 -11.28 21.51 130.39
 Coefficients:
             Estimate Std. Error t value Pr(>|t|)
 (Intercept) -51.054 24.982 -2.044 0.0499 *
                          3.884 8.229 3.48e-09 ***
              31.958
 Х
 Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
 Residual standard error: 38.62 on 30 degrees of freedom
 Multiple R-squared: 0.693, Adjusted R-squared: 0.6827
 F-statistic: 67.71 on 1 and 30 DF, p-value: 3.478e-09
| S |
a < - data.frame(y = 140)
result <- predict(relation,a)</pre>
print(result)
 > a <- data.frame(x = 4)
 > result <- predict(relation,a)
 > result
 76.77876
# Give the chart file a name.
png(file = "linearregression.png")
# Plot the chart.
```

