rcode_saham.R

Fathur

2020-10-26

```
setwd("c:/RMFR/materi_26102020/rcode/")
saham <- read.table("saham.txt",header=TRUE)
price <- lm(price~pe+eps+roi+roe+bv, data=saham)
summary(price)
```

```
##
## Call:
## lm(formula = price ~ pe + eps + roi + roe + bv, data = saham)
##
## Residuals:
##     Min      1Q  Median      3Q     Max
## -9511.7 -1452.0   245.7  1152.9  7525.9
##
## Coefficients:
##               Estimate Std. Error t value Pr(>|t|)
## (Intercept) -2875.1411  1309.0799  -2.196   0.0372 *
## pe             -9.1001    11.9562  -0.761   0.4534
## eps            -3.8971     7.5545  -0.516   0.6103
## roi           124.3549   214.9633   0.578   0.5679
## roe            70.6034   207.2762   0.341   0.7361
## bv              3.8976     0.2566  15.188 1.93e-14 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 3353 on 26 degrees of freedom
## Multiple R-squared:  0.9252, Adjusted R-squared:  0.9108
## F-statistic: 64.32 on 5 and 26 DF,  p-value: 8.336e-14
```

```
# Uji asumsi multikolinieritas
library(car)
vif(price)
```

```
##        pe       eps       roi       roe        bv
##  1.096377  5.776259 36.081309 44.468854  1.106299
```

```
# Uji asumsi heteroskedastisitas
library(lmtest)
```

```
## Loading required package: zoo
```

```
##
## Attaching package: 'zoo'
```

```
## The following objects are masked from 'package:base':
##
```

```
##     as.Date, as.Date.numeric
```

```
bptest(price, studentize=FALSE, data=saham)
```

```
##
##  Breusch-Pagan test
##
## data:  price
## BP = 43.178, df = 5, p-value = 3.401e-08
```

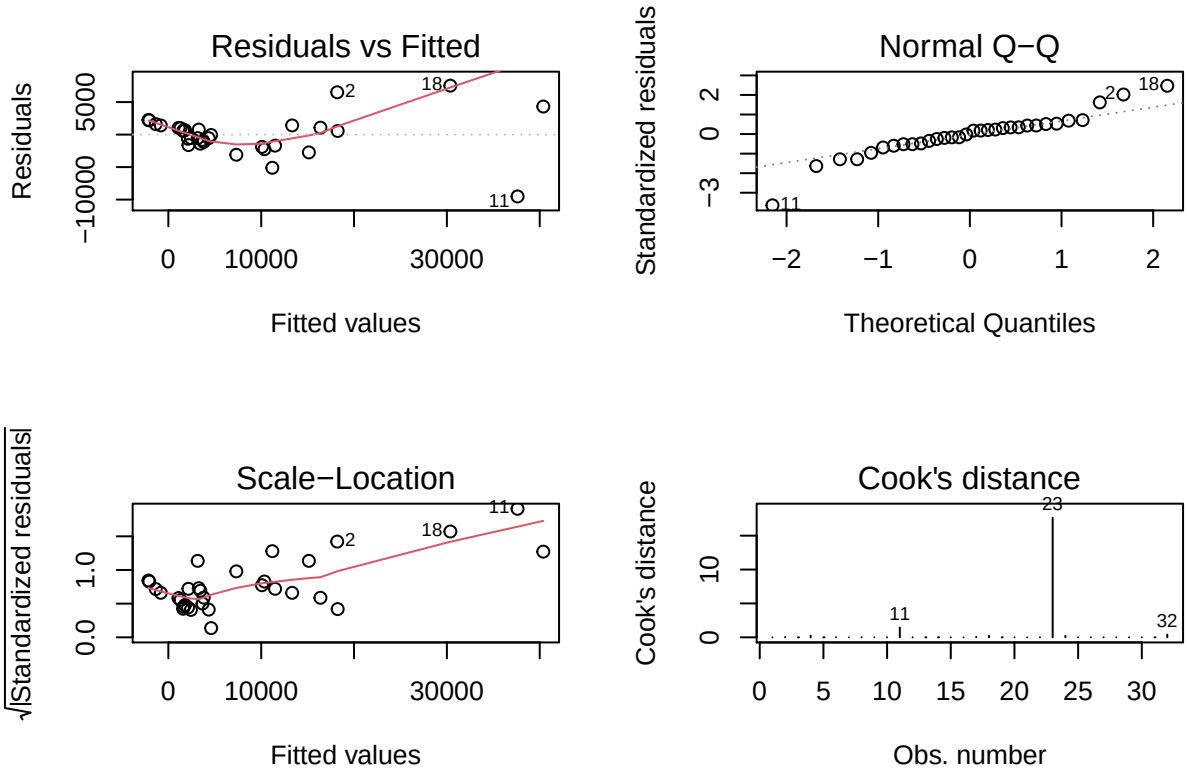
```
# Uji asumsi autokorelasi
library(lmtest)
dwtest(price)
```

```
##
##  Durbin-Watson test
##
## data:  price
## DW = 2.2541, p-value = 0.7679
## alternative hypothesis: true autocorrelation is greater than 0
```

```
bgtest(price, order=6)
```

```
##
##  Breusch-Godfrey test for serial correlation of order up to 6
##
## data:  price
## LM test = 5.9147, df = 6, p-value = 0.4328
```

```
# diagnosa kenormalan residual
par(mfrow=c(2,2))
plot(price,which=c(1:4))
```


Residuals vs Fitted
Residuals
Fitted values
Normal Q−Q
Standardized residuals
Theoretical Quantiles
Scale−Location
√|Standardized residuals|
Fitted values
Cook's distance
Cook's distance
Obs. number