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#add packages
install.packages('qqplotr')
library(psych)
library(dplyr)
library(ggplot2)
library(GGally)
library(car)
library(lmtest)
library(whitestrapp)
library(qqplotr)

#import dataset
netflix = read.csv("netflixBinary.csv")

#create linear regression model
model =
  lm(data=netflix, Close~Quarters.from.Start+Open+High+Low+Volume+Market.St
    rength+Company.Performance+Revenue+Subscribers.Worldwide+App.Downloads+O
    perating.Expenses+Long.Term.Debt+Total.Liabilities+Total.Assets+Cash.on.
    Hand+Shareholder.Equity+PE.Ratio+EPS+Employees)
model

#return coefficients of model
coef(model)

#return predicted y's of model
fitted(model)

#return residuals of model
residuals = residuals(model)
residuals

#return summary of model
report = summary(model)
report

#durbin Watson test
durbinWatsonTest(model)

#breusch pagan test
bptest(model)

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#white's test
white_test(model)

#residuals plot
plot(x=fitted(model), y=residuals, main='Residuals', xlab='Predicted
Values', ylab='Residual Values')
#add horizontal line at 0
abline(0,0)

#model plot
plot(model, main='Multiple Linear Regression Model', xlab='Observed
Values', ylab='Predicted Values')

#input prediction dataset
prediction = read.csv('prediction.csv')

#run model with prediction values
predict(model, newdata=prediction)

#turns off scientific notation
options(scipen = 999)

#normality plot
qqnorm(fitted(model))
qqline(fitted(model))
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