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#Objective 2:
#Considering current trend of COVID-19 tests in Malaysia, I want to determine
the number of COVID-19 test kits that would be required each week in
Malaysia, over next 3 months.
extract columns 'date' and 'new tests' in dataframe "df objective2"
df objective2.plot(Trend, Seasonality, and Noise graph to analyse the data)
divide df objective2 in ratio of 70:30 in train df objective2 and
test df objective2 dataframe
from library pylab import package rcParams
using train df objective2 create a decomposition graph
plot the graph.
and show the graph
if (for train df objective2 Autocorrelation function Function (ACF) is not
Stationary):
   use differencing method
    Verify Augmented Dickey-Fuller (ADF) for trend
    if (P value less than or = 0.05):
        Plot graph Partial Autocorrelation function (PACF)
        Plot graph Autocorrelation function Function (ACF)
        Extract value of Probable Autoregression (AR) and Probable Moving
Average (MA)
        Create a ARIMA Model 'arima model' using method
sm.tsa.arima.ARIMA().
        FIT the model
        Evaluate model using Mean Squared Error (MSE) and Root Mean Squared
Error (RMSE)
        if (RMSE between 0.2 and 0.5):
            Accept Model
            Predict result for new tests for each day for next 90 days.
            Calcualte number of tests lits required: Assuming 1 new test
requires 1 test kit.
            Calcualte number fo test kits required per week for next 13 weeks
        else:
           restart modelling
```