6/9/2021 MACD updated

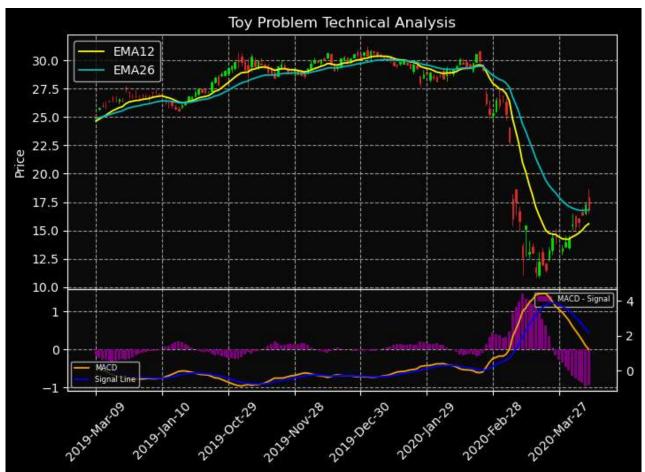
MACD FOR TOY PROBLEM



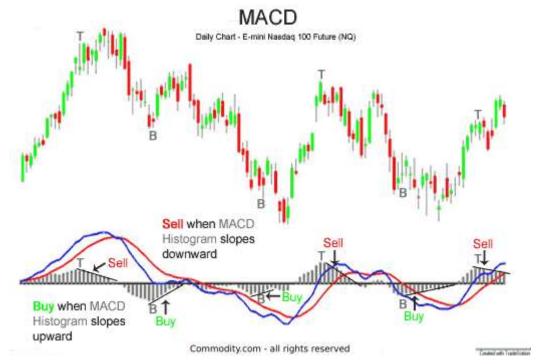
```
#header files
 In [8]:
          import numpy as np
          import pandas as pd
          import yfinance as yf
          import matplotlib.pyplot as plt
          import mplfinance as mpf
          df=pd.read csv(r'C:\Users\Sihab Uddin\Desktop\data.csv',index col=0,parse dates=True)
 In [9]:
          #calculating MACD by subracting exponential moving average of 12 weeks and 26 weeks.
In [10]:
          df['EMA12'] = df['Close'].ewm(span=12).mean()
          df['EMA26'] = df['Close'].ewm(span=26).mean()
          df['MACD'] = df['EMA26'] - df['EMA12']
In [11]:
          #calculating signal and histogram.
          df['MACDSignalLine'] = df['MACD'].ewm(span=9).mean()
          df['Histogram'] = df['MACD'] - df['MACDSignalLine']
          #ploting
In [14]:
          apds = [mpf.make_addplot(df['EMA12'][-150:], color='yellow'),
                  mpf.make_addplot(df['EMA26'][-150:], color='c'),
                  mpf.make_addplot(df['MACD'][-150:], panel=1, secondary_y=True, color='orange'),
                  mpf.make_addplot(df['MACDSignalLine'][-150:], panel=1, secondary_y=True, color=
                  mpf.make_addplot(df['Histogram'][-150:], panel=1, type='bar', color='purple', s
          # Create my own `marketcolors` to use with the `nightclouds` style:
In [15]:
          mc = mpf.make marketcolors(up='#00ff00',down='#ff2e2e',inherit=True)
```

6/9/2021 MACD updated

Out[15]: Text(0.5, 1.0, 'Toy Problem Technical Analysis')



6/9/2021 MACD updated



In [16]:

df.to_csv(r'C:\Users\Sihab Uddin\Desktop\datacombined.csv')

Notes: 240 days are shown in the analysis because the software is not capable of visualizing big data.

Special thanks to Aidan Wilson (https://medium.com/analytics-vidhya/algorithmic-trading-in-python-macd-ca508c0017b)

Image credit:

https://commons.wikimedia.org/wiki/File:MACDpicwiki.gif

https://commodity.com/technical-analysis/macd/

In []: