

Assignment_3

February 21, 2022

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[105]: import pandas as pd
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smart = pd.read_csv('SRU-UN.TO.csv')
cp = pd.read_csv('CP.TO.csv')
royal = pd.read_csv('RY.TO.csv')
```

```
[106]: print('Stat          ', ' Smart Centers', '          CP', '          Royal Bank')
print('One Year Highs: ', "${:12.2f}".format(max(smart.High)), "  ${:10.2f}".
      ↪format(max(cp.High)), "  ${:12.2f}".format(max(royal.High)))
print('One Year Lows:  ', "${:12.2f}".format(min(smart.Low)), "  ${:10.2f}".
      ↪format(min(cp.Low)), "  ${:12.2f}".format(min(royal.Low)))
print('One Year HAVg:  ', "${:12.2f}".format(mean(smart.High)), "  ${:10.2f}".
      ↪format(mean(cp.High)), "  ${:12.2f}".format(mean(royal.High)))
print('One Year LAvg:  ', "${:12.2f}".format(mean(smart.Low)), "  ${:10.2f}".
      ↪format(mean(cp.Low)), "  ${:12.2f}".format(mean(royal.Low)))
```

Stat	Smart Centers	CP	Royal Bank
One Year Highs: \$	32.50	\$ 100.00	\$ 149.60
One Year Lows: \$	25.22	\$ 82.12	\$ 108.15
One Year HAVg: \$	30.08	\$ 93.40	\$ 128.53
One Year LAvg: \$	29.68	\$ 91.60	\$ 127.17

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[107]: def Stock_Prices(ticker, df):
        high = max(df.High)
        low = min(df.Low)
        average = ( sum(df.High) + sum (df.Low)) / (len(df) * 2)
        print(f'{ticker}\''s one year stock price high was ${high:,.2f}')
        print(f'{ticker}\''s one year stock price low was ${low:,.2f}')
        print(f'{ticker}\''s one year stock price average was ${average:,.2f}')

Stock_Prices('Smart Centres REIT',smart)
Stock_Prices('CP Rail',cp)
Stock_Prices('Royal Bank',royal)
```

Smart Centres REIT's one year stock price high was \$32.50
Smart Centres REIT's one year stock price low was \$25.22
Smart Centres REIT's one year stock price average was \$29.88
CP Rail's one year stock price high was \$100.00

CP Rail's one year stock price low was \$82.12
CP Rail's one year stock price average was \$92.50
Royal Bank's one year stock price high was \$149.60
Royal Bank's one year stock price low was \$108.15
Royal Bank's one year stock price average was \$127.85

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