```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
from google.colab import drive
drive.mount('/content/gdrive')
 Go to this URL in a browser: <a href="https://accounts.google.com/o/oauth2/auth?client_id=947318989803-6bn6qk8qdgf4n4g3pfee6491hc0brc4i.apps.googleusercontent.com&redire">https://accounts.google.com/o/oauth2/auth?client_id=947318989803-6bn6qk8qdgf4n4g3pfee6491hc0brc4i.apps.googleusercontent.com&redire</a>
     Enter your authorization code:
     Mounted at /content/gdrive
start_date = '1976-8-18'
end_date = '2019-12-3'
pred_end_date = '2020-12-3'
Toyota = pd.read_csv('gdrive/My Drive/ToyotaKuyKuy.csv')
print(Toyota)
                  Date
                              0pen
                                          High ...
                                                           Close
                                                                  Adj Close Volume
 C→
     0
             8/18/1976
                          2.562200
                                      2.562200
                                                        2.562200
                                                                    1.490914
                                                                               19500
                                                ...
             8/19/1976
                                                                    1.483570
                          2.549578
                                      2.549578
                                                       2.549578
                                                                                 500
     1
                                                . . .
     2
             8/20/1976
                          2.536956
                                      2.536956
                                                       2.536956
                                                                    1.476225
                                                                                8000
     3
             8/23/1976
                          2.461226
                                      2.461226
                                                . . .
                                                       2.461226
                                                                    1.432159
                                                                                1000
                                      2.435982 ...
     4
             8/24/1976
                          2.435982
                                                       2.435982
                                                                    1.417470
                                                                                7500
                                                . . .
                                                ... 141.970001 141.970001
     10914 11/26/2019 141.979996 142.000000
                                                                               86400
                                                     141.660004 141.660004
     10915
           11/27/2019
                       141.490005
                                    141.860001
                                                                              179900
           11/29/2019 140.149994 140.580002 ... 140.210007 140.210007
            12/2/2019 141.350006 141.350006 ... 140.270004 140.270004
     10917
                                                                              117800
     10918
            12/3/2019 140.509995 140.789993 ... 140.729996 140.729996
     [10919 rows x 7 columns]
Toyota['Date'] = pd.to_datetime(Toyota['Date'])
print(Toyota)
                                                                  Adj Close Volume
\Box
                             Open
                                         High ...
                                                          Close
                                     2.562200 ...
     0
           1976-08-18
                                                                  1.490914
                                                                              19500
                         2.562200
                                                      2.562200
     1
           1976-08-19
                         2.549578
                                     2.549578
                                                      2.549578
                                                                  1.483570
                                                                                500
           1976-08-20
                         2.536956
                                     2.536956
                                                       2.536956
                                                                  1.476225
                                                                               8000
                                               . . .
                                     2.461226 ...
                                                                  1.432159
           1976-08-23
                         2.461226
     3
                                                      2.461226
                                                                               1000
     4
           1976-08-24
                         2.435982
                                     2.435982
                                                       2.435982
                                                                   1.417470
                                                                               7500
     10914 2019-11-26 141.979996 142.000000 ... 141.970001 141.970001
                                                                              86400
     10915 2019-11-27 141.490005 141.860001 ... 141.660004
                                                                141.660004
     10916 2019-11-29 140.149994 140.580002 ... 140.210007 140.210007 107800
     10917 2019-12-02 141.350006 141.350006 ... 140.270004 140.270004 117800
     10918 2019-12-03 140.509995 140.789993 ... 140.729996 140.729996
     [10919 rows x 7 columns]
print(Toyota.head())
print(Toyota.tail())
             Date
                       Open
                                 High
                                                    Close Adi Close
                                            Low
     0 1976-08-18 2.562200 2.562200 2.562200 2.562200
                                                            1.490914
                                                                        19500
     1 1976-08-19 2.549578 2.549578 2.549578 2.549578
     2 1976-08-20 2.536956 2.536956 2.536956
                                                            1.476225
                                                                         8000
     3 1976-08-23 2.461226 2.461226 2.461226 2.461226
                                                            1.432159
     4 1976-08-24 2.435982 2.435982 2.435982 2.435982
                                                            1.417470
                                                                         7500
                                         High ...
                 Date
                             0pen
                                                          Close
                                                                 Adj Close Volume
     10914 2019-11-26 141.979996 142.000000 ... 141.970001 141.970001
     10915 2019-11-27 141.490005 141.860001 ... 141.660004 141.660004 179900
     10916 2019-11-29 140.149994 140.580002 ... 140.210007
                                                                140.210007
                                                                             107800
     10917 2019-12-02 141.350006 141.350006 ... 140.270004 140.270004 117800
     10918 2019-12-03 140.509995 140.789993 ... 140.729996 140.729996 109300
     [5 rows x 7 columns]
returns = (Toyota.loc[1:, 'Adj Close'] - \
Toyota.shift(1).loc[1:, 'Adj Close']) / \
Toyota.shift(1).loc[1:, 'Adj Close']
print(returns.tolist())
 [-0.004925837439315611, -0.004950895475104078, -0.02985046317465152, -0.010256542744206442, -0.010362829548420743, 0.0, 0.036649341557948016, -0.020202284155049
So = Toyota.loc[Toyota.shape[0] - 1, "Adj Close"]
print(So)
[→ 140.729996
dt = 1 # day # User input
n of wkdays = pd.date_range(start = pd.to_datetime(end_date,
format = "%Y-%m-%d") + pd.Timedelta('1 days'),
end = pd.to_datetime(pred_end_date,
format = "%Y-%m-%d")).to_series().map(lambda x:
1 if x.isoweekday() in range(1,6) else 0).sum()
T = n_of_wkdays # days # User input -> follows from pred_end_date
N = T / dt
t = np.arange(1, int(N) + 1)
mu = np.mean(returns)
sigma = np.std(returns)
scen size = 50 # User input
b = {str(scen): np.random.normal(0, 1, int(N)) for scen in range(1, scen_size + 1)}
W = {str(scen): b[str(scen)].cumsum() for scen in range(1, scen_size + 1)}
```

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```
# Calculating drift and diffusion components drift = (mu - 0.5 * sigma**2) * t
drift = (mu - 0.5 * sigma**2) * t
print(drift)
0.00290837 0.00332385 0.00373933 0.00415481 0.00457029 0.00498577
     0.00540125 \ 0.00581673 \ 0.00623222 \ 0.0066477 \ \ 0.00706318 \ 0.00747866
     0.00789414\ 0.00830962\ 0.0087251\ 0.00914058\ 0.00955606\ 0.00997154
     0.01038703 0.01080251 0.01121799 0.01163347 0.01204895 0.01246443
     0.01287991 \ 0.01329539 \ 0.01371087 \ 0.01412636 \ 0.01454184 \ 0.01495732
     0.01786568 \ 0.01828117 \ 0.01869665 \ 0.01911213 \ 0.01952761 \ 0.01994309
     0.02035857 \ 0.02077405 \ 0.02118953 \ 0.02160501 \ 0.0220205 \ 0.02243598
     0.02285146 0.02326694 0.02368242 0.0240979 0.02451338 0.02492886
     0.02534434 \ 0.02575982 \ 0.02617531 \ 0.02659079 \ 0.02700627 \ 0.02742175
     0.02783723 0.02825271 0.02866819 0.02908367 0.02949915 0.02991463
     0.03033012\ 0.0307456 \quad 0.03116108\ 0.03157656\ 0.03199204\ 0.03240752
     0.03531589 0.03573137 0.03614685 0.03656233 0.03697781 0.03739329
     0.03780877 0.03822426 0.03863974 0.03905522 0.0394707 0.03988618
     0.04030166 0.04071714 0.04113262 0.0415481 0.04196358 0.04237907
     0.04279455 \ 0.04321003 \ 0.04362551 \ 0.04404099 \ 0.04445647 \ 0.04487195
     0.04528743 \ 0.04570291 \ 0.0461184 \ \ 0.04653388 \ 0.04694936 \ 0.04736484
     0.04778032 0.0481958 0.04861128 0.04902676 0.04944224 0.04985772
     0.05027321 0.05068869 0.05110417 0.05151965 0.05193513 0.05235061
     0.05276609 0.05318157 0.05359705 0.05401254 0.05442802 0.0548435
     0.05525898 0.05567446 0.05608994 0.05650542 0.0569209 0.05733638
     0.05775186 0.05816735 0.05858283 0.05899831 0.05941379 0.05982927
     0.06024475 0.06066023 0.06107571 0.06149119 0.06190667 0.06232216
     0.06273764 \ 0.06315312 \ 0.0635686 \ \ 0.06398408 \ 0.06439956 \ 0.06481504
      0.06772341 \  \, 0.06813889 \  \, 0.06855437 \  \, 0.06896985 \  \, 0.06938533 \  \, 0.06980081 
     0.0702163  0.07063178  0.07104726  0.07146274  0.07187822  0.0722937
     0.07270918 0.07312466 0.07354014 0.07395563 0.07437111 0.07478659
     0.07520207 0.07561755 0.07603303 0.07644851 0.07686399 0.07727947
     0.07769495 0.07811044 0.07852592 0.0789414 0.07935688 0.07977236
     0.08018784\ 0.08060332\ 0.0810188\ 0.08143428\ 0.08184976\ 0.08226525
     0.08268073 0.08309621 0.08351169 0.08392717 0.08434265 0.08475813
     0.08517361 0.08558909 0.08600458 0.08642006 0.08683554 0.08725102
     0.0876665  0.08808198  0.08849746  0.08891294  0.08932842  0.0897439
     0.09015939 0.09057487 0.09099035 0.09140583 0.09182131 0.09223679
     0.09265227 \ 0.09306775 \ 0.09348323 \ 0.09389871 \ 0.0943142 \ 0.09472968
     0.09514516 0.09556064 0.09597612 0.0963916 0.09680708 0.09722256
     0.09763804 0.09805353 0.09846901 0.09888449 0.09929997 0.09971545
     0.10013093 0.10054641 0.10096189 0.10137737 0.10179285 0.10220834
     0.10262382 0.1030393 0.10345478 0.10387026 0.10428574 0.10470122
     diffusion = {str(scen): sigma * W[str(scen)] for scen in range(1, scen_size + 1)}
print(diffusion)
```

https://colab.research.google.com/drive/1NVhBRGhxOopt2YhZgAv7Gq8Sp4LbmL8V#scrollTo=O2YMDIRFKEDP&printMode=true, which is a simple of the contraction of the contrac

```
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           -3.15237269e-01, -3.30324400e-01, -3.30697871e-01, -3.15151677e-01,
           \hbox{-2.97265118e-01, -2.70223196e-01, -2.58728577e-01, -2.54344854e-01,}\\
           -2.54430993e-01, -2.53623762e-01, -2.24576773e-01, -2.15564745e-01,
           -2.06562276e-01, -2.04585622e-01, -2.05456835e-01, -2.03465874e-01,
           \hbox{-2.13211736e-01, -1.93988181e-01, -1.79539080e-01, -1.89711916e-01,}\\
           -1.80800662e-01, \ -1.58330514e-01, \ -1.79973318e-01, \ -1.84239096e-01,
           -1.65693802e-01, -1.57446435e-01, -1.89706616e-01, -2.16596547e-01,
           -2.00170975e-01, -2.12492215e-01, -2.15930425e-01, -2.21532988e-01,
           -2.31206159e-01, -2.56714531e-01, -2.46726372e-01, -2.56700521e-01,
           \hbox{-2.27723471e-01, -2.23737482e-01, -2.58961741e-01, -2.52453543e-01,}\\
           -2.40877064e-01, -2.56395735e-01, -2.25095175e-01, -2.15236011e-01,
           \hbox{-2.24496847e-01, -2.33850511e-01, -2.31945429e-01, -2.18101204e-01,}\\
           -2.24579644e-01, -2.35019270e-01, -2.03309009e-01, -2.21574602e-01,
           -2.41752843e-01, -2.16806186e-01, -2.49390779e-01, -2.59471541e-01,
           \hbox{-2.64844053e-01, -2.72388095e-01, -2.73360469e-01, -2.56594579e-01,}\\
           -2.43991912e-01, -2.56544505e-01, -2.41876148e-01, -2.57815458e-01,
           -2.51543253e-01, -2.42924468e-01, -2.38786740e-01, -2.52988434e-01,
           -2.32493298e-01, -2.10857933e-01, -1.98790952e-01, -2.02017965e-01,
           -2.10400634e-01, -1.98782687e-01, -1.88560663e-01, -1.92523350e-01,
           \hbox{-1.93452133e-01, -2.10229625e-01, -2.17751184e-01, -2.29969750e-01,}
           -2.47333671e-01, -2.35140495e-01, -2.41840681e-01, -2.57125243e-01,
# Making the predictions
S = np.array([So * np.exp(drift + diffusion[str(scen)]) for scen in range(1, scen_size + 1)
S = np.hstack((np.array([[So] for scen in range(scen_size)]), S)) # add So to the beginning
print(S)

☐ [[140.729996 142.5136537 145.32867813 ... 164.38678707 163.5619512

      168.12665434]
     217.27050545]
     [140.729996 138.08383225 137.39424171 ... 239.5436575 247.89169853
      253.67660972]
     129.63965485]
     199.51906787]
     169.0282414 ]]
# Plotting the simulations plt.figure(figsize = (20,10))
for i in range(scen_size):
plt.title("Daily Volatility: " + str(sigma))
plt.plot(pd.date_range(start = Toyota["Date"].max(),
 end = pred_end_date, freq = 'D').map(lambda x:
 x if x.isoweekday() in range(1, 6) else np.nan).dropna(), S[i, :])
 plt.ylabel('Stock Prices, RP')
plt.xlabel('Prediction Days')
plt.show()
```

/usr/local/lib/python3.6/dist-packages/pandas/plotting/_matplotlib/converter.py:103: FutureWarning: Using an implicitly registered datetime converter for a matp

To register the converters:

>>> from pandas.plotting import register_matplotlib_converters

>>> register_matplotlib_converters()
warnings.warn(msg, FutureWarning)

