```
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')
 Drive already mounted at /content/gdrive; to attempt to forcibly remount, call drive.mount("/content/gdrive", force_remount=True).
start_date = '1972-1-6'
end_date = '2019-12-5'
pred_end_date = '2020-12-5'
Ford = pd.read_csv('gdrive/My Drive/F.csv')
print(Ford)
                                    High
                                                       Close Adj Close
                                                                          Volume
 C→
                 Date
                           0pen
                                               Low
           1972-06-01 2.149165 2.173495 2.149165 2.153220
                                                                          1089200
           1972-06-02 2.153220 2.173495
                                          2.141055 2.149165
                                                               0.281584
                                                                          1173500
           1972-06-05 2.149165 2.169440
                                          2.141055 2.149165
                                                               0.281584
                                                                          5208100
           1972-06-06 2.149165 2.157275 2.116725 2.124835
                                                               0.278396
                                                                          1421400
           1972-06-07 2.124835 2.137000
                                                    2.112669
                                                               0.276802
                                                                          671800
                                          2.112669
    11979 2019-11-29 9.040000 9.100000
                                          9.030000 9.060000
                                                               9.060000 13096200
     11980
           2019-12-02 9.080000 9.140000
                                          9.000000 9.010000
                                                               9.010000
                                                                         37232700
           2019-12-03 8.950000
                                8.950000
                                          8.800000
                                                               8.950000 29982900
    11982 2019-12-04 8.950000 9.030000 8.940000 8.950000
     11983 2019-12-05 8.970000 9.000000 8.880000 8.930000
                                                               8.930000 23822910
     [11984 rows x 7 columns]
Ford['Date'] = pd.to_datetime(Ford['Date'])
print(Ford)
                                                      Close Adj Close
                          0pen
                                   High
                                              Low
\Box
          1972-06-01 2.149165 2.173495 2.149165 2.153220
                                                             0.282115
                                                                         1089200
          1972-06-02 2.153220 2.173495 2.141055 2.149165
                                                              0.281584
                                                                         1173500
          1972-06-05 2.149165 2.169440 2.141055
                                                              0.281584
                                                                         5208100
                                                   2.149165
          1972-06-06 2.149165 2.157275 2.116725 2.124835
                                                              0.278396
                                                                         1421400
          1972-06-07 2.124835 2.137000 2.112669 2.112669
                                                              9.060000 13096200
    11979 2019-11-29 9.040000 9.100000 9.030000 9.060000
                                                              9.010000 37232700
     11980 2019-12-02 9.080000 9.140000 9.000000 9.010000
     11981 2019-12-03 8.950000 8.950000 8.800000 8.890000
                                                              8.890000 40653100
     11982 2019-12-04 8.950000 9.030000 8.940000
                                                   8.950000
                                                              8.950000
                                                                       29982900
    11983 2019-12-05 8.970000 9.000000 8.880000 8.930000
                                                              8.930000 23822910
     [11984 rows x 7 columns]
print(Ford.head())
print(Ford.tail())
                                                  Close Adi Close
            Date
                      0pen
                                High
                                          Low
    0 1972-06-01 2.149165 2.173495 2.149165 2.153220
                                                          0.282115
                                                                    1089200
    1 1972-06-02 2.153220 2.173495 2.141055 2.149165
     2 1972-06-05 2.149165 2.169440 2.141055 2.149165
                                                          0.281584
                                                                    5208100
                 2.149165
                           2.157275 2.116725
     3 1972-06-06
                                                          0.278396
    4 1972-06-07 2.124835 2.137000 2.112669 2.112669
                                                          0.276802
                                                                    671800
                Date Open High
                                 Low Close Adj Close
                                                           Volume
     11979 2019-11-29 9.04 9.10 9.03
                                                   9.06
                                                        13096200
    11980 2019-12-02 9.08 9.14 9.00
                                        9.01
                                                   9.01 37232700
     11981 2019-12-03 8.95 8.95 8.80
                                                   8.89 40653100
    11982 2019-12-04 8.95 9.03 8.94
                                        8.95
                                                   8.95 29982900
    11983 2019-12-05 8.97 9.00 8.88
                                        8.93
                                                   8.93 23822910
returns = (Ford.loc[1:, 'Adj Close'] - \
Ford.shift(1).loc[1:, 'Adj Close']) / \
Ford.shift(1).loc[1:, 'Adj Close']
print(returns.tolist())
   [-0.001882211155025446,\ 0.0,\ -0.011321666003750298,\ -0.005725656977830085,\ -0.0076769676519677895,\ -0.005803179734742932,\ 0.0,\ 0.007781516974692632,\ 0.015446498]
So = Ford.loc[Ford.shape[0] - 1, "Adj Close"]
€ 8.93
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)}
# Calculating drift and diffusion components drift = (mu - 0.5 * sigma**2) * t
drift = (mu - 0.5 * sigma**2) * t
```

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    [0.00028741 0.00057481 0.00086222 0.00114962 0.00143703 0.00172443

     0.00201184 0.00229924 0.00258665 0.00287405 0.00316146 0.00344886
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     0.05719364 0.05748104 0.05776845 0.05805585 0.05834326 0.05863066
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     0.07271352 0.07300092 0.07328833 0.07357574 0.07386314 0.07415055
diffusion = {str(scen): sigma * W[str(scen)] for scen in range(1, scen size + 1)}
print(diffusion)
```

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# 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)
 □→ [[ 8.93
                     8.9006554
                                  8.71890009 ... 19.1173762 18.60982631
       17.50848459]
      [ 8.93
                     8.8824435
                                  9.06768597 ... 13.38572488 12.82084539
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                     8.91692489 8.99817738 ... 15.84691393 15.71460482
      [ 8.93
       15.70384472]]
# 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 = Ford["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()
```

