import pandas as pd

start\_date = '2024-01-01'

end\_date = '2024-01-05'

date\_index = pd.date\_range(start=start\_date, end=end\_date, freq='D')

#setting TimeZone

date\_index = pd.date\_range(start=start\_date, end=end\_date, freq='D', tz='UTC')

print(date\_index)

#Localizing TimeZone

date\_index = pd.date\_range(start=start\_date, end=end\_date, freq='D')

date\_index = date\_index.tz\_localize('America/New\_York')

print(date\_index)

#Converting TimeZone

date\_index = date\_index.tz\_convert('Europe/London')

print(date\_index)

#Combining two different TimeZones

date\_index1 = pd.date\_range(start=start\_date, periods=3, freq='D', tz='UTC')

date\_index2 = pd.date\_range(start=start\_date, periods=3, freq='D', tz='America/New\_York')

combined\_index = date\_index1.union(date\_index2)

print(combined\_index)