Programming Question 1:  
  
Google Collab Link: [Tara Capital.ipynb](https://colab.research.google.com/drive/1zRoL0i9eLAQ22gjlDPtpaDgKzrySD5BP?authuser=0#scrollTo=Sg3TLmM2bceB)

import pandas as pd

ai=pd.read\_csv("/content/AssetIdentity.txt", sep="|")

ai.head()

im=pd.read\_csv("/content/IDMapping.txt", sep="|")

im.head()

im.value\_counts()

def find\_well\_known\_ids(root\_id, date):

active\_ids = set()

filtered\_data = im[(im["StartDate"] <= date) & (im["EndDate"] >= date)]

for index, row in filtered\_data.iterrows():

if row["S2ID"] in root\_id\_to\_s2id[root\_id]:

active\_ids.add(row["WellKnownID"])

return list(active\_ids)

root\_id\_to\_s2id = ai.groupby("RootID")["S2ID"].apply(list).to\_dict()

well\_known\_id\_type = input("Choose between Sedol/Cusip/ISIN: ")

root\_id = input("Enter RootID: ")

# root\_id=int(root\_id)

date = input("Enter date in YYYYMMDD format: ")

# date=str(date)

# date=int(date)

active\_well\_known\_ids = find\_well\_known\_ids(root\_id, date)

print(",".join(active\_well\_known\_ids))