Please note that the jar file Stocks.jar needs to be in the same directory as the below folders
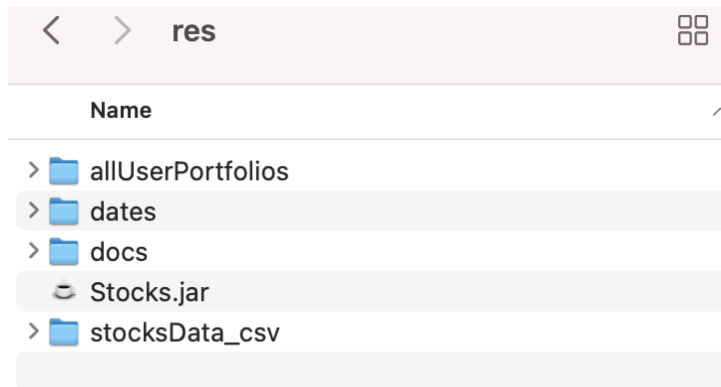   A. **allUserPortfolios**
   B. **Dates**
   C. **stocksData_csv**

< > res ⊞

Name	
> 📁 allUserPortfolios	
> 📁 dates	
> 📁 docs	
💿 Stocks.jar	
> 📁 stocksData_csv	

Intructions on how to run the program to create a portfolio with 3 different stocks, a second portfolio with 2 different stocks and query their value on a specific date
–

1. Open terminal on the folder which contains the jar file.
2. Type →   java -jar Stocks.jar
3. The console will show a menu
     What are you looking for today?
    1. Create a portfolio.
    2. View composition of a portfolio.
    3. Get total value of a portfolio on a specified date.
    4. Exit the program

    Choose an option number:
4. Enter 1.
5. Enter the name of the Portfolio (Must be a name that does not exist already).
   Enter Port1
6. You will be shown a list of all stocks with their Ticker symbols. You can also enter Quit if you do not want to proceed. Enter any stock Ticker correctly.

      a. Type the stock TICKER
      b. Microsoft(Ticker: MSFT)

c. Google(Ticker: GOOGL)
d. Apple(Ticker: AAPL)
e. IBM(Ticker: IBM)
f. Morgan Stanley(Ticker: MS)
g. Amazon.com Inc(Ticker: AMZN)
h. Bank Of America Corp(Ticker: BAC)
i. DoorDash Inc - Class A(Ticker: DASH)
j. Etsy Inc(Ticker: ETSY)
k. JPMorgan Chase & Company(Ticker: JPM)
l. MongoDB Inc - Class A(Ticker: MDB)
m. Meta Platforms Inc - Class A(Ticker: META)
n. Netflix Inc(Ticker: NFLX)
o. U.S. Gold Corp(Ticker: USAU)
p. Vodafone Group plc(Ticker: VOD)
q. Warner Bros. Discovery Inc - Class A(Ticker: WBD)
r. Finished adding stocks, create portfolio now. (Type Quit)

(Enter MSFT)

7. Enter the number of shares of that stock.
   (Enter 10)
8. You will be shown the same list of tickers again. Keep entering stock Tickers and number of shares until you are done. Enter QUIT when done.

9. You will see a message saying "Successfully created portfolio.".
10. The program will show you the initial menu again. Carry out the same steps to create a new portfolio will 2 different stocks.
11. Enter quit to create portfolio.
12. You will be shown the initial menu again, enter '3' to get the value of a portfolio by date.
13. Enter a name of an existing portfolio of which you want to get the value of.
14. Enter a valid date in YYYY-MM-DD format between 2022-06-13 and 2022-11-02 (Must be a business day).
15. You will be shown the initial menu again. Enter 4 to end program.

The images below will give a clearer picture of what is explained above.

```
luja@Sristikas-MacBook-Air res % java -jar Stocks.jar

  What are you looking for today?
1. Create a portfolio.
2. View composition of a portfolio.
3. Get total value of a portfolio on a specified date.
4. Exit the program

Choose an option number:
1

Enter the name of portfolio: CHECK1

Type the stock TICKER
Microsoft( Ticker: MSFT)
Google( Ticker: GOOGL)
Apple( Ticker: AAPL)
IBM( Ticker: IBM)
Morgan Stanley( Ticker: MS)
Amazon.com Inc( Ticker: AMZN)
Bank Of America Corp( Ticker: BAC)
DoorDash Inc - Class A( Ticker: DASH)
Etsy Inc( Ticker: ETSY)
JPMorgan Chase & Company( Ticker: JPM)
MongoDB Inc - Class A( Ticker: MDB)
Meta Platforms Inc - Class A( Ticker: META)
Netflix Inc( Ticker: NFLX)
U.S. Gold Corp( Ticker: USAU)
Vodafone Group plc( Ticker: VOD)
Warner Bros. Discovery Inc - Class A( Ticker: WBD)
Finished adding stocks, create portfolio now. (Type Quit)
MSFT

Enter the number of shares you want to buy of this stock:
 (Note: You can only buy whole number amount of shares)
10

Type the stock TICKER
Microsoft( Ticker: MSFT)
Google( Ticker: GOOGL)
Apple( Ticker: AAPL)
IBM( Ticker: IBM)
Morgan Stanley( Ticker: MS)
Amazon.com Inc( Ticker: AMZN)
Bank Of America Corp( Ticker: BAC)
DoorDash Inc - Class A( Ticker: DASH)
Etsy Inc( Ticker: ETSY)
JPMorgan Chase & Company( Ticker: JPM)
MongoDB Inc - Class A( Ticker: MDB)
Meta Platforms Inc - Class A( Ticker: META)
Netflix Inc( Ticker: NFLX)
U.S. Gold Corp( Ticker: USAU)
Vodafone Group plc( Ticker: VOD)
Warner Bros. Discovery Inc - Class A( Ticker: WBD)
Finished adding stocks, create portfolio now. (Type Quit)
USAU
```

```
Enter the number of shares you want to buy of this stock:
 (Note: You can only buy whole number amount of shares)
20

Type the stock TICKER
Microsoft( Ticker: MSFT)
Google( Ticker: GOOGL)
Apple( Ticker: AAPL)
IBM( Ticker: IBM)
Morgan Stanley( Ticker: MS)
Amazon.com Inc( Ticker: AMZN)
Bank Of America Corp( Ticker: BAC)
DoorDash Inc - Class A( Ticker: DASH)
Etsy Inc( Ticker: ETSY)
JPMorgan Chase & Company( Ticker: JPM)
MongoDB Inc - Class A( Ticker: MDB)
Meta Platforms Inc - Class A( Ticker: META)
Netflix Inc( Ticker: NFLX)
U.S. Gold Corp( Ticker: USAU)
Vodafone Group plc( Ticker: VOD)
Warner Bros. Discovery Inc - Class A( Ticker: WBD)
Finished adding stocks, create portfolio now. (Type Quit)
NFLX

Enter the number of shares you want to buy of this stock:
 (Note: You can only buy whole number amount of shares)
15

Type the stock TICKER
Microsoft( Ticker: MSFT)
Google( Ticker: GOOGL)
Apple( Ticker: AAPL)
IBM( Ticker: IBM)
Morgan Stanley( Ticker: MS)
Amazon.com Inc( Ticker: AMZN)
Bank Of America Corp( Ticker: BAC)
DoorDash Inc - Class A( Ticker: DASH)
Etsy Inc( Ticker: ETSY)
JPMorgan Chase & Company( Ticker: JPM)
MongoDB Inc - Class A( Ticker: MDB)
Meta Platforms Inc - Class A( Ticker: META)
Netflix Inc( Ticker: NFLX)
U.S. Gold Corp( Ticker: USAU)
Vodafone Group plc( Ticker: VOD)
Warner Bros. Discovery Inc - Class A( Ticker: WBD)
Finished adding stocks, create portfolio now. (Type Quit)
Quit

Successfully created portfolio.

  What are you looking for today?
1. Create a portfolio.
2. View composition of a portfolio.
3. Get total value of a portfolio on a specified date.
4. Exit the program

Choose an option number:
1
```

```
Choose an option number:
1

Enter the name of portfolio: CHECK2

Type the stock TICKER
Microsoft( Ticker: MSFT)
Google( Ticker: GOOGL)
Apple( Ticker: AAPL)
IBM( Ticker: IBM)
Morgan Stanley( Ticker: MS)
Amazon.com Inc( Ticker: AMZN)
Bank Of America Corp( Ticker: BAC)
DoorDash Inc — Class A( Ticker: DASH)
Etsy Inc( Ticker: ETSY)
JPMorgan Chase & Company( Ticker: JPM)
MongoDB Inc — Class A( Ticker: MDB)
Meta Platforms Inc — Class A( Ticker: META)
Netflix Inc( Ticker: NFLX)
U.S. Gold Corp( Ticker: USAU)
Vodafone Group plc( Ticker: VOD)
Warner Bros. Discovery Inc — Class A( Ticker: WBD)
Finished adding stocks, create portfolio now. (Type Quit)
AMZN

Enter the number of shares you want to buy of this stock:
 (Note: You can only buy whole number amount of shares)
2

Type the stock TICKER
Microsoft( Ticker: MSFT)
Google( Ticker: GOOGL)
Apple( Ticker: AAPL)
IBM( Ticker: IBM)
Morgan Stanley( Ticker: MS)
Amazon.com Inc( Ticker: AMZN)
Bank Of America Corp( Ticker: BAC)
DoorDash Inc — Class A( Ticker: DASH)
Etsy Inc( Ticker: ETSY)
JPMorgan Chase & Company( Ticker: JPM)
MongoDB Inc — Class A( Ticker: MDB)
Meta Platforms Inc — Class A( Ticker: META)
Netflix Inc( Ticker: NFLX)
U.S. Gold Corp( Ticker: USAU)
Vodafone Group plc( Ticker: VOD)
Warner Bros. Discovery Inc — Class A( Ticker: WBD)
Finished adding stocks, create portfolio now. (Type Quit)
DASH

Enter the number of shares you want to buy of this stock:
 (Note: You can only buy whole number amount of shares)
3

Type the stock TICKER
Microsoft( Ticker: MSFT)
Google( Ticker: GOOGL)
Apple( Ticker: AAPL)
IBM( Ticker: IBM)
Morgan Stanley( Ticker: MS)
```

```
Type the stock TICKER
Microsoft( Ticker: MSFT)
Google( Ticker: GOOGL)
Apple( Ticker: AAPL)
IBM( Ticker: IBM)
Morgan Stanley( Ticker: MS)
Amazon.com Inc( Ticker: AMZN)
Bank Of America Corp( Ticker: BAC)
DoorDash Inc — Class A( Ticker: DASH)
Etsy Inc( Ticker: ETSY)
JPMorgan Chase & Company( Ticker: JPM)
MongoDB Inc — Class A( Ticker: MDB)
Meta Platforms Inc — Class A( Ticker: META)
Netflix Inc( Ticker: NFLX)
U.S. Gold Corp( Ticker: USAU)
Vodafone Group plc( Ticker: VOD)
Warner Bros. Discovery Inc — Class A( Ticker: WBD)
Finished adding stocks, create portfolio now. (Type Quit)
QUIT

Successfully created portfolio.

   What are you looking for today?
1. Create a portfolio.
2. View composition of a portfolio.
3. Get total value of a portfolio on a specified date.
4. Exit the program

Choose an option number:
3

Enter the name of portfolio: CHECK1
Please enter a valid date in YYYY-MM-DD format between 2022-06-13 and 2022-11-02 (Must be a business day)
2022-10-13

Total value of portfolio CHECK1 on 2022-10-13 is: 5901.249999999999

   What are you looking for today?
1. Create a portfolio.
2. View composition of a portfolio.
3. Get total value of a portfolio on a specified date.
4. Exit the program

Choose an option number:
3

Enter the name of portfolio: CHECK2
Please enter a valid date in YYYY-MM-DD format between 2022-06-13 and 2022-11-02 (Must be a business day)
2022-10-13

Total value of portfolio CHECK2 on 2022-10-13 is: 362.78999999999996

   What are you looking for today?
1. Create a portfolio.
2. View composition of a portfolio.
3. Get total value of a portfolio on a specified date.
4. Exit the program

Choose an option number:
4
luja@Sristikas-MacBook-Air res %
```

Below is the list of stocks that the program supports:

1. Microsoft(Ticker: MSFT)
2. Google(Ticker: GOOGL)

3. Apple(Ticker: AAPL)
4. IBM(Ticker: IBM)
5. Morgan Stanley(Ticker: MS)
6. Amazon.com Inc(Ticker: AMZN)
7. Bank Of America Corp(Ticker: BAC)
8. DoorDash Inc - Class A(Ticker: DASH)
9. Etsy Inc(Ticker: ETSY)
10. JPMorgan Chase & Company(Ticker: JPM)
11. MongoDB Inc - Class A(Ticker: MDB)
12. Meta Platforms Inc - Class A(Ticker: META)
13. Netflix Inc(Ticker: NFLX)
14. U.S. Gold Corp(Ticker: USAU)
15. Vodafone Group plc(Ticker: VOD)
16. Warner Bros. Discovery Inc - Class A(Ticker: WBD)

Dates supported : All business days between 2022-06-13 and 2022-11-02 are supported.

Please **note** that the program assumes that today's date is 2022-11-02 (Due to limited data stored in the project data files.)