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# 

# Project: Building And Execution

## From Command Prompt: Running the program

1. Download the project from git hub (and unzip)
2. Install Java (tested and executed using 1.7)
3. Install maven (tested on with mvn:version:3.3.9)
4. Open the command prompt (cmd.exe) and change directory to the downloaded project directory [ from step1].
5. $ mvn clean compile exec:java

## From Command Prompt: Executing the Junit

1. Open the command prompt (cmd.exe) and change directory to the downloaded project directory [ from step1].
2. $ mvn clean test

## From Eclipse: Running the program

1. Import the project into eclipse
2. Install Java (tested and executed using 1.7)
3. Install maven (tested on with mvn:version:3.3.9)
4. Open the file: **stockmarket.example.run.StockSampleMainRun.java**p and rt click and RunAs -> Java Application

## From Eclipse: Running the JUnits

1. All the Junits are present int he folder src/test/java . Rt click and RunAs -> Junit TestCases

## From Eclipse: Running the Integration Tests

1. On the file:

**stockmarket.example.test.integration.cucumber.annotation.RunCukesAnnotationIntegrationTest.java**

1. Rt Click -> Run As -> JunitTest Case:

# Configuring the Project

## Configuring the TimeStamp Format : configured: yyyy.MM.dd.HH.mm.ss"

In File : -> StockConstants.java

Change the below format to any of the accepted timestamps

public static String inputDateFormat = "yyyy.MM.dd.HH.mm.ss";

## Setting Scale for the Calculation : configured: 4

In File : -> StockConstants.java

Change the number in the below scale value.

public static int inputBigDecimalScale = 4;

# Help to interpret User Prompts

## Understanding Each Menu

## Every prompt message provides 3 options:

* Heading underlined with \*\*\* marks
* Allowed Types: Eg : Integer, String, BigDecimal ( any float numbers), Timestamp
* Allowed Values: If only a set of values have to be chosen from the allowed values.
* Q : to exit the program at any time.

|  |
| --- |
| Choose Stock Symbol -  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  (AllowedType: Integer)  AllowedValues: (  1 <for> TEA,  2 <for> POP,  3 <for> ALE,  4 <for> GIN,  5 <for> JOE)  (Enter Q for Exit) :  $YOUR INPUT:--------->  2 |

## Understanding the User Input prompt YOUR INPUT:

## The system asks the user to prompt for an input with a generic message:

|  |
| --- |
| $YOUR INPUT:---------> |

## Understanding Result:

## Result of Each Service will result in special output format like

|  |
| --- |
| **\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***  **\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***  **<<< RESULT: Dividend Yield:0.1455 >>>**  **\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***  **\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*** |

## How to make system Accept the Default Current TimeStamp for Recording Trade:

## For the Service: Record Trade, the system asks for entering timestamp..(Format yyyy.MM.dd.HH.mm.ss) it is not practicle to enter the complete timestamp. For easiness the system asks if it should accept the default value when a user does not enter any value. Following demonstrates how it is done.

|  |
| --- |
| Time Of Trade -  \*\*\*\*\*\*\*\*\*\*\*\*\*  (AllowedType: Date)(AllowedFormat:yyyy.MM.dd.HH.mm.ss)  (Enter Q for Exit) :  $YOUR INPUT:--------->  Accept default as present timestamp:2017.01.10.01.06.53insead of null -  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  (AllowedType: String)  AllowedValues: (  N <for> ReEnter the Timestamp,  Y <for> Accept default as present timestamp:2017.01.10.01.06.53)  (Enter Q for Exit) :  **$YOUR INPUT:--------->**  **Y**  {You Entered:Y <for> Accept default as present timestamp:2017.01.10.01.06.53} |

# Simple Stock Services:

Available Options

|  |
| --- |
| 1 <for> Calculate Dividend Yield: From Price,  2 <for> Calculate P/E Ratio: From Price,  3 <for> Record a trade, with timestamp, quantity of shares, buy or sell indicator and traded price,  4 <for> Calculate Volume Weighted Stock Price based on trades in past 15 minutes,  5 <for> Calculate the GBCE All Share Index,  6 <for> Show Available Stocks,  7 <for> Recorded Trades,  8 <for> Start Again) |

## Service : Calculate Dividend Yield

### How to Reach this Service

User has to select **1** when prompted ‘Choose Stock Example’:

### Inputs: What the user is asked ?

1. Select a Stock Simbol ( from available stocks)

Input Type : Number

select a number that denotes the stock Symbol

1. Enter a Price for the Stock

Input Type : BigDecimal

User Can Enter any float decimal number

### Result

Calculates and displays the Calculated Dividend

### Command Prompt Copied Text:

|  |
| --- |
| Command Prompt : for Service : Calculate Dividend Yield: |
| =========================  <<Simple Stock Example:>>  =========================  Choose Stock Service -  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  (AllowedType: Integer)  AllowedValues: (  1 <for> Calculate Dividend Yield: From Price,  2 <for> Calculate P/E Ratio: From Price,  3 <for> Record a trade, with timestamp, quantity of shares, buy or sell indicator and traded price,  4 <for> Calculate Volume Weighted Stock Price based on trades in past 15 minutes,  5 <for> Calculate the GBCE All Share Index,  6 <for> Show Available Stocks,  7 <for> Recorded Trades,  8 <for> Start Again)  (Enter Q for Exit) :  $YOUR INPUT:--------->  1  {You Entered:1 <for> Calculate Dividend Yield: From Price}  Choose Stock Symbol -  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  (AllowedType: Integer)  AllowedValues: (  1 <for> TEA,  2 <for> POP,  3 <for> ALE,  4 <for> GIN,  5 <for> JOE)  (Enter Q for Exit) :  $YOUR INPUT:--------->  2  {You Entered:2 <for> POP}  Enter Price -  \*\*\*\*\*\*\*\*\*\*\*  (AllowedType: BigDecimal)  (Enter Q for Exit) :  $YOUR INPUT:--------->  55  {You Entered:55}  **\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***  **\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***  **<<< RESULT: Dividend Yield:0.1455 >>>**  **\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***  **\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*** |

### Command Prompt Screenshot:

|  |
| --- |
| Command Prompt Screenshot : for Service : Calculate Dividend Yield: |
|  |

## Service : Calculate PE Ratio

### How to Reach this Service

User has to select **2** when prompted ‘Choose Stock Example’:

### Inputs: What the user is asked ?

1. Select a Stock Simbol ( from available stocks)

Input Type : Number

select a number that denotes the stock Symbol

1. Enter a Price for the Stock

Input Type : BigDecimal

User Can Enter any float decimal number

### Result

Calculates and displays the Calculated Dividend

### Command Prompt Copied Text:

|  |
| --- |
| Command Prompt : for Service : Calculate P/E Ratio: |
| =========================  <<Simple Stock Example:>>  =========================  Choose Stock Service -  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  (AllowedType: Integer)  AllowedValues: (  1 <for> Calculate Dividend Yield: From Price,  2 <for> Calculate P/E Ratio: From Price,  3 <for> Record a trade, with timestamp, quantity of shares, buy or sell indicator and traded price,  4 <for> Calculate Volume Weighted Stock Price based on trades in past 15 minutes,  5 <for> Calculate the GBCE All Share Index,  6 <for> Show Available Stocks,  7 <for> Recorded Trades,  8 <for> Start Again)  (Enter Q for Exit) :  $YOUR INPUT:--------->  2  {You Entered:2 <for> Calculate P/E Ratio: From Price}  Choose Stock Symbol -  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  (AllowedType: Integer)  AllowedValues: (  1 <for> TEA,  2 <for> POP,  3 <for> ALE,  4 <for> GIN,  5 <for> JOE)  (Enter Q for Exit) :  **$YOUR INPUT:--------->**  **3**  {You Entered:3 <for> ALE}  Enter Price -  \*\*\*\*\*\*\*\*\*\*\*  (AllowedType: BigDecimal)  (Enter Q for Exit) :  **$YOUR INPUT:--------->**  **10**  {You Entered:10}  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  <<< RESULT: P/E Ratio:0.4348 >>>  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* |

### Command Prompt Screenshot:

|  |
| --- |
| Command Prompt Screenshot : for Service : Calculate P/E Ratio: |
|  |

## Service : Record a Trade

### How to Reach this Service

User has to select **3** when prompted ‘Choose Stock Example’:

### Inputs: What the user is asked ?

### User Asked: Choose A Stock Symbol ?

1. Select a Stock Simbol ( from available stocks)

Input Type : Number

select a number that denotes the stock Symbol

### User Asked: Time Of Trade?

1. Select a Stock Simbol ( from available stocks)

Input Type : Date

Select a Date in the format yyyy.MM.dd.HH.mm.ss

OR User can Accept a Default Current Date By choosing:

1. Enter ***Nothing***
2. Select ***Y*** to accept the default Current Date

### User Asked: Buy Or Sell ?

1. Select a Stock Simbol ( from available stocks)

Input Type : String

Allowed Values ***B*** or ***S***

### User Asked: Enter Quantity ?

1. Select a Stock Simbol ( from available stocks)

Input Type : Number

select any natural number.

### User Asked: Enter Price ?

1. Select a Stock Simbol ( from available stocks)

Input Type : BigDecimal

User Can Enter any float decimal number

### Result

Trade is Recorded

### Command Prompt Copied Text:

|  |
| --- |
| Command Prompt : for Service : Calculate P/E Ratio: |
| Choose Stock Service -  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  (AllowedType: Integer)  AllowedValues: (  1 <for> Calculate Dividend Yield: From Price,  2 <for> Calculate P/E Ratio: From Price,  3 <for> Record a trade, with timestamp, quantity of shares, buy or sell indicator and traded price,  4 <for> Calculate Volume Weighted Stock Price based on trades in past 15 minutes,  5 <for> Calculate the GBCE All Share Index,  6 <for> Show Available Stocks,  7 <for> Recorded Trades,  8 <for> Start Again)  (Enter Q for Exit) :  $YOUR INPUT:--------->  3  {You Entered:3 <for> Record a trade, with timestamp, quantity of shares, buy or sell indicator and traded price}  ------------------  <<Record A Trade>>  ------------------  Choose Stock Symbol -  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  (AllowedType: Integer)  AllowedValues: (  1 <for> TEA,  2 <for> POP,  3 <for> ALE,  4 <for> GIN,  5 <for> JOE)  (Enter Q for Exit) :  **$YOUR INPUT:--------->**  **3**  {You Entered:3 <for> ALE}  Time Of Trade -  \*\*\*\*\*\*\*\*\*\*\*\*\*  (AllowedType: Date)(AllowedFormat:yyyy.MM.dd.HH.mm.ss)  (Enter Q for Exit) :  $YOUR INPUT:--------->  Accept default as present timestamp:2017.01.10.01.06.53insead of null -  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  (AllowedType: String)  AllowedValues: (  N <for> ReEnter the Timestamp,  Y <for> Accept default as present timestamp:2017.01.10.01.06.53)  (Enter Q for Exit) :  **$YOUR INPUT:--------->**  **Y**  {You Entered:Y <for> Accept default as present timestamp:2017.01.10.01.06.53}  Buy Or Sell ? -  \*\*\*\*\*\*\*\*\*\*\*\*\*  (AllowedType: String)  AllowedValues: (  S <for> SELL,  B <for> BUY)  (Enter Q for Exit) :  **$YOUR INPUT:--------->**  **S**  {You Entered:S <for> SELL}  Quantity Of Shares -  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  (AllowedType: Integer)  (Enter Q for Exit) :  **$YOUR INPUT:--------->**  **5**  {You Entered:5}  Enter Price -  \*\*\*\*\*\*\*\*\*\*\*  (AllowedType: BigDecimal)  (Enter Q for Exit) :  **$YOUR INPUT:--------->**  **10**  {You Entered:10} |

## Service : Calculate Volume Weighted Stock Price

### How to Reach this Service

User has to select **4** when prompted ‘Choose Stock Example’:

### Inputs: What the user is asked ?

1. Select a Stock Simbol ( from available stocks)

Input Type : Number

select a number that denotes the stock Symbol

### Result

Calculates the Volume Weighted Stock Price

### Command Prompt Copied Text:

|  |
| --- |
| Command Prompt : for Service : Calculate the Volume Weighted Stock Price: |
| =========================  <<Simple Stock Example:>>  =========================  Choose Stock Service -  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  (AllowedType: Integer)  AllowedValues: (  1 <for> Calculate Dividend Yield: From Price,  2 <for> Calculate P/E Ratio: From Price,  3 <for> Record a trade, with timestamp, quantity of shares, buy or sell indicator and traded price,  4 <for> Calculate Volume Weighted Stock Price based on trades in past 15 minutes,  5 <for> Calculate the GBCE All Share Index,  6 <for> Show Available Stocks,  7 <for> Recorded Trades,  8 <for> Start Again)  (Enter Q for Exit) :  **$YOUR INPUT:--------->**  **7**  {You Entered:7 <for> Recorded Trades}  {"quantitiy":5,"buySell":"SELL","price":10.0000,"tradeTimeInDateFormat":"2017.01.10.01.06.55","tradePriceMultQuant":50.00000000,"quantitiyBD":5.0000,"tradeTimeWithin15Mins":fal  se}  {"quantitiy":100,"buySell":"SELL","price":20.0000,"tradeTimeInDateFormat":"2017.01.10.01.28.47","tradePriceMultQuant":2000.00000000,"quantitiyBD":100.0000,"tradeTimeWithin15Min  s":true}  =========================  <<Simple Stock Example:>>  =========================  Choose Stock Service -  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  (AllowedType: Integer)  AllowedValues: (  1 <for> Calculate Dividend Yield: From Price,  2 <for> Calculate P/E Ratio: From Price,  3 <for> Record a trade, with timestamp, quantity of shares, buy or sell indicator and traded price,  4 <for> Calculate Volume Weighted Stock Price based on trades in past 15 minutes,  5 <for> Calculate the GBCE All Share Index,  6 <for> Show Available Stocks,  7 <for> Recorded Trades,  8 <for> Start Again)  (Enter Q for Exit) :  **$YOUR INPUT:--------->**  **4**  {You Entered:4 <for> Calculate Volume Weighted Stock Price based on trades in past 15 minutes}  Choose Stock Symbol -  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  (AllowedType: Integer)  AllowedValues: (  1 <for> TEA,  2 <for> POP,  3 <for> ALE,  4 <for> GIN,  5 <for> JOE)  (Enter Q for Exit) :  $YOUR INPUT:--------->  3  {You Entered:3 <for> ALE}  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  <<< RESULT: Volume Weighted Stock Price:20.0000 >>>  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* |

## Service : Calculate GBCE All Share Index

### How to Reach this Service

User has to select 5 when prompted ‘Choose Stock Example’:

### Result

Calculates the GBCE All Share Index

### Command Prompt Copied Text:

|  |
| --- |
| Command Prompt : for Service : Calculate GBCE All Share Index: |
| =========================  <<Simple Stock Example:>>  =========================  Choose Stock Service -  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  (AllowedType: Integer)  AllowedValues: (  1 <for> Calculate Dividend Yield: From Price,  2 <for> Calculate P/E Ratio: From Price,  3 <for> Record a trade, with timestamp, quantity of shares, buy or sell indicator and traded price,  4 <for> Calculate Volume Weighted Stock Price based on trades in past 15 minutes,  5 <for> Calculate the GBCE All Share Index,  6 <for> Show Available Stocks,  7 <for> Recorded Trades,  8 <for> Start Again)  (Enter Q for Exit) :  **$YOUR INPUT:--------->**  **7**  {You Entered:7 <for> Recorded Trades}  {"quantitiy":5,"buySell":"SELL","price":10.0000,"tradeTimeInDateFormat":"2017.01.10.01.06.55","tradePriceMultQuant":50.00000000,"quantitiyBD":5.0000,"tradeTimeWithin15Mins":fal  se}  {"quantitiy":100,"buySell":"SELL","price":20.0000,"tradeTimeInDateFormat":"2017.01.10.01.28.47","tradePriceMultQuant":2000.00000000,"quantitiyBD":100.0000,"tradeTimeWithin15Min  s":true}  =========================  <<Simple Stock Example:>>  =========================  Choose Stock Service -  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  (AllowedType: Integer)  AllowedValues: (  1 <for> Calculate Dividend Yield: From Price,  2 <for> Calculate P/E Ratio: From Price,  3 <for> Record a trade, with timestamp, quantity of shares, buy or sell indicator and traded price,  4 <for> Calculate Volume Weighted Stock Price based on trades in past 15 minutes,  5 <for> Calculate the GBCE All Share Index,  6 <for> Show Available Stocks,  7 <for> Recorded Trades,  8 <for> Start Again)  (Enter Q for Exit) :  **$YOUR INPUT:--------->**  **5**  {You Entered:5 <for> Calculate the GBCE All Share Index}  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  <<< RESULT: GBCE of All Share Index:14.1421 >>>  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* |

## Additional Util Service : Show Stocks in JSon format

### How to Reach this Service

User has to select **6** when prompted ‘Choose Stock Example’:

### Result

Displays the stocks in Json Format

### Command Prompt Copied Text:

|  |
| --- |
| Command Prompt : for Service : Show Stoccks: |
| =========================  <<Simple Stock Example:>>  =========================  Choose Stock Service -  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  (AllowedType: Integer)  AllowedValues: (  1 <for> Calculate Dividend Yield: From Price,  2 <for> Calculate P/E Ratio: From Price,  3 <for> Record a trade, with timestamp, quantity of shares, buy or sell indicator and traded price,  4 <for> Calculate Volume Weighted Stock Price based on trades in past 15 minutes,  5 <for> Calculate the GBCE All Share Index,  6 <for> Show Available Stocks,  7 <for> Recorded Trades,  8 <for> Start Again)  (Enter Q for Exit) :  $YOUR INPUT:--------->  6  {You Entered:6 <for> Show Available Stocks}  {"symbol":"TEA","type":"COMMON","lastDivident":0.0000,"fixedDivident":null,"parValue":100.0000,"tradesWithin15Mins":[]}  {"symbol":"POP","type":"COMMON","lastDivident":8.0000,"fixedDivident":null,"parValue":100.0000,"tradesWithin15Mins":[]}  {"symbol":"ALE","type":"COMMON","lastDivident":23.0000,"fixedDivident":null,"parValue":60.0000,"tradesWithin15Mins":[{"quantitiy":5,"buySell":"SELL","price":10.0000,"tradeTimeI  nDateFormat":"2017.01.10.01.06.55","tradePriceMultQuant":50.00000000,"quantitiyBD":5.0000,"tradeTimeWithin15Mins":true}]}  {"symbol":"GIN","type":"PREFERRED","lastDivident":8.0000,"fixedDivident":0.0200,"parValue":100.0000,"tradesWithin15Mins":[]}  {"symbol":"JOE","type":"COMMON","lastDivident":13.0000,"fixedDivident":null,"parValue":250.0000,"tradesWithin15Mins":[]}  ========================= |

## Additional Util Service : Show Trades in JSon format

### How to Reach this Service

User has to select **7** when prompted ‘Choose Stock Example’:

### Result

Displays the Trades in Json Format

### Command Prompt Copied Text:

|  |
| --- |
| Command Prompt : for Service : Show Trades: |
| =========================  <<Simple Stock Example:>>  =========================  Choose Stock Service -  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  (AllowedType: Integer)  AllowedValues: (  1 <for> Calculate Dividend Yield: From Price,  2 <for> Calculate P/E Ratio: From Price,  3 <for> Record a trade, with timestamp, quantity of shares, buy or sell indicator and traded price,  4 <for> Calculate Volume Weighted Stock Price based on trades in past 15 minutes,  5 <for> Calculate the GBCE All Share Index,  6 <for> Show Available Stocks,  7 <for> Recorded Trades,  8 <for> Start Again)  (Enter Q for Exit) :  $YOUR INPUT:--------->  7  {You Entered:7 <for> Recorded Trades}  {"quantitiy":5,"buySell":"SELL","price":10.0000,"tradeTimeInDateFormat":"2017.01.10.01.06.55","tradePriceMultQuant":50.00000000,"quantitiyBD":5.0000,"tradeTimeWithin15Mins":fal  se} |