CODE NOTES – LiveStock App

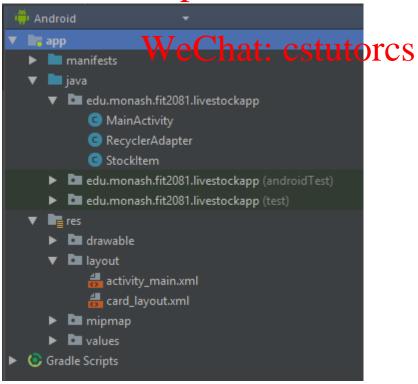
This app is very similar to CardDemo_AppBar2081Student App in terms of structure and function. The main difference is the data source as the CardDemo uses synthetic data while this App (LiveStock) retrieves its data from a real web server using HTTP requests.

App Structure

The app consists of three classes, which are:

- MainActivity:
 - o Inflate the layout
 - o Send HTTP GET request
 - o Parse the response and generate the list of items
 - o Create and setup the ArrayAdapter
- RecyclerAdapter
 - Accept the list of items from the MainActivity class
 - Build card views
 - o Bind data to the card views
- stock signment Project Exam Help
 - o Represents one item
 - Has four attributes which are: title, open, close, and volume of the stock.

https://tutorcs.com



Data Source

The app sends a request to https://www.alphavantage.co/ to get the live updates of stocks.

The request is:

https://www.alphavantage.co/query?function=TIME_SERIES_INTRADAY&symbol=GOOGL&interval =15min&apikey=PU8GPVJCDYMBBAQF

Where:

https://www.alphavantage.co	The remote server
TIME_SERIES_INTRADAY	The required function
GOOGL	Stock Symbol (Google)
15min	Interval. Other values:5min, 10min,30min
PU8GPVJCDYMBBAQF	Apikey (Free and lifetime)

Response Sample

```
"Meta Data": {
    "1. Information": "Intraday (15min) prices and volumes",
"2. Ambels 1: "15min", Project Exam Help
"4. Interval": "15min",
    "5. Output Size": "Compact",
    "6. Time Zone": "US/Eastern"
"Time Series (15minttps://tutorcs.com"2018-03-29 16:00:00
          "1. open": "1039.3800",
         "2. high": "1043.2300",
         "3. low": "1035.0450",
"4. close" 400hat: cstutorcs
"5. volume" 4 column 1 cstutorcs
    },
"2018-03-29 15:45:00": {
" "1042 915
         "1. open": "1042.9150", "2. high": "1043.2150",
         "3. low": "1038.0000",
         "4. close": "1039.4100",
         "5. volume": "62081"
    "2018-03-29 15:30:00": {
         "1. open": "1046.1300", "2. high": "1047.3700",
         "3. low": "1041.0000",
         "4. close": "1043.0900",
         "5. volume": "41421"
```

Notes:

- The response is an object
- The first child object "Meta Data" has 6 items describe the response.
- The second object "Time Series (15min)" contains a list of items (list of objects) represent the stock updates
- The app has to create a view (card) for each object (2018-03-29 16:00:00 or 2018-03-29 15:30:00