



King Fahd University of Petroleum & Minerals

College of Computer Sciences and Engineering

Information and Computer Science Department

SWE 311: Introduction to Software Engineering (2-3-3)

Second Semester 2021-2022 (212)

Lab01 Introduction

As a group, solve the following and show your work on the different software development processes (Requirement Specification, Design, Implementation, Testing).

Problem)

A trading office wants to build an application that helps them analyze the stocks. They download the stocks data from yahoo finance a sample of the fetched data is attached with this file.

They want the application to load the the historical data and be able to ask for the price for a specific date. Also they want it to be able to calculate the simple moving average, the exponential moving average with smoothing factor that follows the typical formula and the dividends yield.

They want the application to allow them to change the options of calculating the above such that they can calculate the moving average of 5 days, 10 days, 100 day, etc and so on.

It is fair to say they didn't finalize their needs yet.

Submit the following:

- Report Document contains
 - Cover page has the course name, lab number, lab topic, section number, group member.
 - A list of the done tasks and who contriputed in each.
 - Page or more documenting the requirements, design, your code and snapshots of the testing.
- Java files named:
 - `TradingOffice.java`