Logo

Description automatically generated

**22/SU-COP-2805C-72035 Java Programming**

**Exercise 9.2**

Document Version: 0.1

Version Date: May 20, 2022

Created By: Johnathan Webster

# Document Version Control

|  |  |  |  |
| --- | --- | --- | --- |
| Version | Date | Author | Rationale |
| 0.1 | 2022 May 20 | Johnathan Webster | First Draft |

# Document Purpose

The purpose of this document is to define the Stock() class.

# Technical Specifications

## Purpose of Technical Implementation

The purpose of this implementation is to have a class named Stock() that creates a stock object.

## Technical Implementation Components

The class can take either three parameters (Stock symbol, Stock name, and the current stock price) or you can instantiate the class with no parameters.

*Stock*(){}

*Stock*(char symbol, String name, double previousClosePrice){

        this.*\_symbol* = symbol;

        this.*\_stockName* = name;

        this.*\_previousClosePrice* = previousClosePrice;

    }

The class will then calculate the previous stock total and the current total and display the difference in percentage.

*public* double *PercentageChange*(double previousprice, double currentprice){

        double increase = currentprice - previousprice;

*return* this.*\_percentageChange* = (increase / previousprice) \* 100;

    }

## Fan Implementation

The implementation of this class allows the user to created new object from the Stock() class that will store stock information and display the price-change percentage to the user.