

**22/SP-COP-2805C-61163 Java Advanced**

**Assignment 11.2**

Document Version: 0.1

Version Date: 04/24/2022

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# Document Version Control

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| Version | Date | Author | Rationale |
| 0.1 | 2022 APR 24 | Tristan Rogers | First Draft |

# Document Purpose

The purpose of this document is to outline the process behind the Person.java class and its children and discuss the inheritance between them.

# Technical Specifications

## Purpose of Technical Implementation

The purpose of this program is to show the relationship between inherited classes and their parents.

## Technical Implementation Components

* This program uses the class person as the parent for many inherited classes. Each class uses the base class parameters while adding parameters of their own

## Technical Implementation Pseudocode

*Create Person*

*Create student/employee/staff/faculty based on need*

*display results*

## Account Implementation

The Person class is the main base class in this program. It takes the basic parameters of name, address, phone, and email. The toString method will display the results.

The Student class extends the Person class while adding a new parameter for status. This dictates whether the student is a freshman, sophomore, etc.

The Employee class extends the Person class while adding parameters for office, salary, and date hired.

The Staff class extends the Employee class while adding a new parameter for title of the employee.

The Faculty class extends the Employee while adding parameters for rank and office hours.

Finally the test class creates an object for each of these classes and invokes the toString method for each to show proper output.