



CS 112 - Intro to Computer Science II - Java Homework Exercises (5 - 10 points each)

Chapter 9 - Programming Projects Handout #1

Project 2:

1. Write a program to enter Employee data, including social security number and salary, into an array. (The maximum number of employees is 100, but your program should also work for any number of employees less than 100.) Your program should use two exception classes called **SSNLengthException** for when the social security number entered (SSN) is not exactly nine characters and **SSNCharacterException** for when any character in the social security number is not a digit. (The **SSN** is to be entered with just the numbers and no dashes or spaces.) When an exception is thrown, the user is reminded of what she or he entered, told why it is inappropriate, and asked to reenter the data. After all data has been entered, your program will output the records for all employees, with an annotation stating whether the employee's salary is above or below average. You will also need to define the classes **Employee**, **SSNLengthException**, and **SSNCharacterException**. The class **Employee** will be a derived class of the class **Person** available on the **K:** drive. Among other things, the class **Employee** should have input and output methods, as well as constructors, accessor methods, and mutator methods. Every employee object will record the employee's name, salary, and social security number (plus any other data you need or think are appropriate). PrintScreen your results.