

CSCI212 Summer 2019

Assignment 4

This assignment can be submitted as many times as you want. However, only the last submission will be graded. The earlier versions will not be graded. So make sure that your final submission works and produces the correct results. Please do not cheat or copy.

Write a program to enter employee data into an ArrayList of type Employee. The data includes employee name, employee Social Security Number, employee job title, and employee salary. The maximum number of employees is 100, but your program should work for any number of employees less than 100. Your program should use two exception classes, one called SSNLengthException for Social Security number entered - without dashes or spaces - is not exactly nine characters and the other SSNCharacterException for when any character in the Social Security number is not a digit. When an Exception is thrown, the user should be reminded of what he or she entered, told why it is inappropriate, and asked to reenter the data. After all data has been entered, your program should display the records for all employees, with an annotation stating whether the employee's salary is above or below the average. You will also need to define the classes Employee, SSNLengthException, SSNCharacterException.

Derive the Employee class from the Person class. The Person class should have name and Social Security Number as the instance variables.

The Employee class should have salary, position title and date hired as instance variables. You need to a reasonable complement of constructors, getter or accessor methods, mutator or setter methods.

Every Employee record should record employee's name, Social Security Number, position title, salary, and hireDate.

In the **EmployeeRecord** class, you need to define a method that to verify that there are correct number of digits. You need to make sure that there are no hyphens in SSN string before you check for the length. Another method to check that there is no character in place of a digit. So in the static main method of this class, use try - catch blocks to catch any Exceptions. The methods isValidLength() and isValidDigits() should both include throws clause in the header line.

Submission details This homework is due on **08/04/2019**

The cut off date is **08/06/2019**

After that any late submission will incur a 10% reduction in score per day.