

Homework # 2

Due: Monday Jul 10, 2017 at 5 pm

Part I: Practice and Theory

1. Practice Problems: P2.10, P2.13, P2.17, P2.18, P2.20, P2.21 (not collected)
2. Chapter 2 Quiz (10 points). Only one attempt allowed, time limit of 60 min.

Part II : Programming

3. Coding Exercise (40 points).

Write a program following the instructions below. Submit the source code to *ccl.e.ucla.edu*. The code should include header comments listing your name, email, course title, collaborators, code description, and the Honesty Pledge. Compile and run your program to make sure it works. In addition, you will be graded on good coding practices.

Instructions: Implement a program that asks for employee information and then gathers the user input to compose two emails using the new employee's data.

Start by printing the following and asking for user input in all questions.

===== PLEASE COMPLETE THE FOLLOWING FORM =====

What is your full name (First Last)?

What year were you born?

What is your birth month?

What day of the month were you born in?

What is your telephone number?

What is your email?

Write your desired hourly wage = \$

Continue your program by modifying the input to find out the age of the user next year (assuming the current year is 2017), extract their initials, assign an ID# consisting of the initials plus the last 4 digits of the phone number. Compute the annual salary using their desired hourly wage and considering a year has 52 weeks, based on a guaranteed 40 hour work week with paid holidays and vacations. The annual salary assigned can be no bigger than \$62,500 and no smaller than \$17,000.

The output should look exactly like the display shown in Figure 1, using correct formatting options.

```
===== PLEASE COMPLETE THE FOLLOWING FORM =====
What is your full name <First Last> ? Sofia Smith
What year were you born? 1997
What is your birth month? April
What day of the month were you born in? 15
What is your telephone number? <310>-333-5555
What is your email? ssmith@ucla.edu
Write your desired hourly wage = $ 15
*****
TO: ALL CURRENT EMPLOYEES

Please join me in welcoming Sofia Smith to our company!

      Name: Sofia Smith
    Initials: S.S.
      Email: ssmith@ucla.edu

Because S.S. will be 21 years young, we will celebrate by going
out to lunch next year during S.S.'s birthday on April 15.

*****
TO: ssmith@ucla.edu

Dear Sofia,

Please review your new employee information:

      Name: Sofia Smith
      ID #: SS5555
      DOB: April 15 1997
    Salary: $ 31,200

Welcome to our company!
```

Figure 1: Hmw2 sample output