Homework 4 C++ - Foundations

University of Washington

Extension Program

Name________________________

1. Write a program that defines an Employee structure containing name, salary, hours worked, and gross pay. Create an array called Company consisting of 3 employees. Assign data to each member of each element of the array. Finally, display the data you assigned. The last line of the display should be the total gross pay.
2. Using the program for the previous problem, change the hours worked for the second Employee in the array and update the gross pay. Re-display the entire array.
3. Write a program that defines an *CheckingAccount* structure containing the member variables

   char[] name

   float balance

   and the member functions

   bool open(char[] aName)

   bool setStartBalance(float anAmount)

   bool deposit(float anAmount)

   bool withdraw(float anAmount)

   Declare two instances of the *CheckingAccount* structure.

   Demonstrate your account structure design by executing the member functions of the two different instances.
4. Write a simple program to aid in balancing a checkbook. The program's input is single-letter commands followed by an amount. The legal commands are d (deposit), w (withdrawal), and b (set starting balance). The program should print the balance after each transaction.

   The program operates by calling the appropriate function members on an instance of a CheckingAccount structure.

   Make sure your program is well behaved even when the input is in error.