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PA1 Requirements Analysis and Design

Analysis

1. My roommate, Alexe, would like to know how much bonuses affect her weekly paycheck from Phonathon. She gets paid different amounts each week based on her performance at her job. She wants to predict her paycheck for this week.

2. To solve this problem, I will need to find out my roommates regular weekly pay before bonuses, how much a bonus is worth, and how many bonuses she earned this week. I will have to multiply the number of bonuses by the amount of money a bonus is worth, and then add that number to her regular weekly pay to get her total weekly pay (with bonuses).

3. Alexe’s regularly weekly pay at this time is $40. For every bonus at this time, she receives an additional 2 dollars (she can earn bonuses by achieving awardable things such as collecting the most money overall, getting the highest number of donations, making the most calls, etc.). This week, she earned 5 bonuses. This program will allow her to see how much her earned bonuses will affect her pay per week, even with more complicated decimal numbers.

Design

Reference: <http://media.pearsoncmg.com/aw/ecs_gaddis_sowjavacso_5/mpl/vn/index.html>

Ask User:

What is your regularly weekly pay before bonuses?

Input: # of dollars and cents earned weekly 🡪PayBeforeBonuses

How much money is each bonus worth at you job?

Input: # of dollars and cents each bonus is worth 🡪SingleBonusValue

How many bonuses did you earn this week?

Input: number of bonuses earned 🡪NumberOfBonuses

Calculations:

TotalBonusWorth=(Money amount of each bonus)\*(number of bonuses)

TotalWeekPay=weekly pay before bonuses + total bonus worth

Output:

Your initial weekly pay of PayBeforeBonuses plus the number of bonuses you earned, TotalBonusWorth, brings your final weekly pay to a total of TotalWeekPay.