

Prelim Activity 4

Creating Java Programs – Program Analysis

TASK GUIDE

Due Date:

Objective: Create programs that illustrates basic program flow analysis showing real life scenarios.

Requirements:

1. Write a program that will read the amount of money that will be withdrawn from an ATM (e.g. P500 or P1200) then compute and output the least number of peso bills (P100 peso bills, P500 peso bills, P1000 peso bills) that will be dispensed by the machine for the requested amount. Determine also the amount of money corresponding to each peso bill dispensed, the sum total of number of bills dispensed, and sum total of amounts per denomination as shown below. Assume that enough bills are always available from the machine.
2. Assume further that the machine can only dispense P100 peso bills, P500 peso bills, and P1000 peso bills.
3. Shown below are sample inputs and outputs when the program is executed:

Welcome to SLU ATM

The machine can only dispense amount in increments of 100.

Please enter amount to be withdrawn, whole numbers only: **3700**

PESO BILLS	QUANTITY DISPENSED	AMOUNT
=====	=====	=====
P1000	3	3000.00
P500	1	500.00
P100	2	200.00
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Total No. Of Bills	6	3700.00

Note: User inputs are shown in red text.

Deliverable:

- Filename: PreAct4LastnameFirstname
- The java file should include comments indicating student name, date and activity name as header at the beginning of the java program.
- The java file should include comments providing the algorithm for the required program.

Rubric and Criteria:

Criteria	10 points	8 points	5 points	3 points	0 point
Program Correctness: Algorithm and logic	The program generates the perfect output. With complete header and algorithm.	The program generates an output with a minor mistake	The program generates a partially correct output	The output of the program is wrong	No submission