

CSCE 145: Lab 2

An Improved ATM for Cash Withdrawals

Objectives

Most ATMs (automated teller machines) allow you to withdraw only one of several fixed amounts of money, such as \$20, \$50, \$100, and \$200. A better machine would allow you to withdraw *any* amount of money. Your job is to write the software for this new ATM. As you complete this assignment, you will learn about

- The primitive data types in Java
- Assignment statements and expressions
- Simple keyboard input and screen output

Program Specification

Create a Java program that asks the user to input an amount of money as a whole number, for example \$157, and displays an analysis of the minimum number of \$20, \$10, \$5, and \$1 bills that make up this amount.

Example Output

Please enter the number of dollars you wish to withdraw: **157**

```
I will dispense
    7 $20 bill(s)
    1 $10 bill(s)
    1  $5 bill(s)
    2  $1 bill(s)
```

Thank you for your business.

Upload your solution to the dropbox at <https://dropbox.cse.sc.edu>.

Point breakdown:

Comments and Convention: 30pts

Requesting and storing input from the user: 30pts

Each denomination (20, 10, 5, 1): 10pts (for a total of 40)

Goodbye statement: 10pts

The comment at the top of the page should be in the following format:

```

/*****
* @filename: filename
* @author: student name
* @version: version
* @date: today's date
*
* Program description...
*****/
```