STUDY GUIDE 6: Pseudocode, Class Constants, Scope

AP Computer Science – WHS Mulvaney

Name _____ Per _____

Lecture Slides	Video Lectures	Textbook Section
- 2G: PseudoCode and MirrorPrinter - 2H: Scope and Class Constants	- Scaling Outputs and MirrorPrinter	- 2.4

- **PracticeIt** (Building Java Programs 4th Edition, Chapter 2)
  - (2G) – Self Check: 2.35; Exercise 2.4
  - (2H) – Exercise: 2.5, 2.6, 2.7, 2.8, 2.17
- **Small Project**
  - Book Printer

2G Lecture Notes: Pseudocode and MirrorPrinter

Vocabulary

Pseudocode	

Task 1: MirrorPrinter

1. Use the link at the right to watch the YouTube video that guides through this activity:
2. Open a new class in your Unit 2 project workspace in BlueJ. Create a new class and name in MirrorPrinter.
3. Create a program that creates the "mirror" image you see at the right.
4. **Note**: The purpose of this program is to evaluate your ability to use nested for loops to create growing and shrinking outputs. Programs that merely include print statements and nothing else will not prepare you for the Study Guide 6 check or the Unit 2 quiz.

2H Lecture Notes: Scope and Class Constants

Class Constant	
Scope	
Marantz Rule	

Programming Project - BookPrinter
Building Java Programs: Programming Project 2.8

Objective: Students will write a program that prints an image of our Building Java Programs using keyboard art. Students will minimize repetition in their code by writing multiple methods and using for loops. Students will also use a class constant and growing/shrinking outputs to vary the size of the book. The book image can be found below (size of ten is shown).

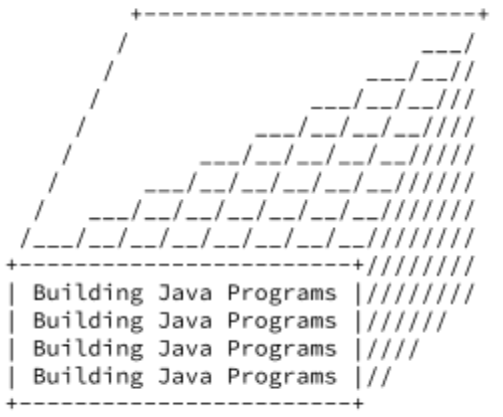
Requirements

1. Contains header, appropriate comments, indentation, and style.
2. Uses a class constant to allow the image of the book to scale correctly.
3. Program uses no concepts outside Units 1 and 2 of the APCS class.

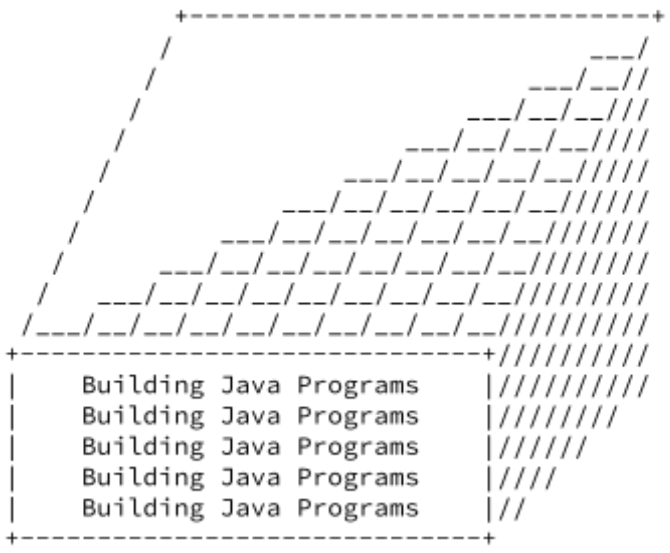
How to turn in your assignment:
1. Demonstrate in class to Mr. Mulvaney

Hints
1. I will only check even numbered sizes.
2. I will not check any size below 8.

Book - SIZE = 8 (No small size will be tested)



Book - SIZE = 10



Pseudocode: