2051

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| **NAME** | **Wylene Dickey** | **DATE** | **October 7, 2009** |
| **WORKSHOP** | **Intermediate Programming** | **LOCATION** | **Georgia Tech** |
| **Student Objective:** The student will be able to identify the difference between classes, objects, and methods when programming in Java. The student will be able to enter Java codes for determining student advancement or failure. |
| **PROCEDURES-ACTIVITIES** | **Standard** |  |
| * The teacher will use the Infocus projector to illustrate how the students will create a class, and add objects and methods for the Beginning Programming class at Central High School.
* The student will enter codes that will include the following:
	+ A public class for students
	+ Private integers for student ID numbers
	+ Private string for their last names
	+ Private string for first names
	+ Private double for the students’ grades
	+ A Boolean variable that will indicate that the students will be promoted to the Intermediate Programming class if their grades are greater than or equal to 69.5.
	+ A result of failure if the students have a grade that is less than 69.5.
 | BCS-IP-2 | Students will apply knowledge of high-level program execution.  |
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| **REMEDIAL ACTIVITIES*** The teacher will assist the students in understanding the difference between classes, objects, and methods. This will be done by have the student remember the acronym, **COM** (**C**lasses, **O**bjects, and **M**ethods. The student will be able to remember the acronym by associating it with **dot.com**.
* The student will write five examples of classes, objects, and methods.
 | **ENRICHMENT ACTIVITIES*** Students will write, compile, and test a class that prints the definitions to the following terms:
	+ Arguments
	+ Class
	+ Compiler
	+ Logic
	+ Method
	+ Object
	+ static
	+ void
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| **MATERIALS/EQUIPMENT NEEDED*** Computer projector (Infocus)
* Beginning Programming textbook
* Copy a list of relevant tutorial Web sites
* A copy of the organizational chart for the school system
 | **EVALUATION*** Feedback/Class Participation
* Graded Assignments.
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