Assignment 2 CS1400 Summer 2011

Description:

Download A2.java. Make a copy of it and rename it to A2YourName.java where you substitute your first and last name for *YourName.* Open A2YourName.java in jGrasp, change the class name to A2YourName, compile it, and run it.

In this assignment you need to modify the 8 examples provided so that they will produce different output as described below. Modify A2YourName.java and keep A2.java as reference.

The purpose of this assignment is to demonstrate your understanding of the existing code and the ability to implement specific changes. E.g. if the original code segment uses formatted output, use formatted output as well. If the original code segment uses a variable use a variable, too.

This assignment is also about precision. Make sure to read the instructions carefully and watch for spaces, empty lines, commas, etc. Don't just rewrite the code but keep the original intent of the code segment.

Example:

You are asked to change example X so that it produces the following output:

2 + 5 = 10

ExampleX:

```
int num1 = 4
int num2 = 3
System.out.printf("%d * %d = %d",
        num1, num2, num1 * num2);
```

Good Solution:

```
int num1 = 2;
int num2 = 5;
System.out.printf("%d + %d = %d",
       num1, num2, num1 + num2);
```

Missing the point:

```
System.out.println("2 + 5 = 10");
```

Instructions:

Change example 0 so that it produces the following output:

```
Example 0:
xxxx
x  x
xxxx
```

Change example 1 so that it produces the following output:

```
Example 1:
Hi, I am Susan.
I am 8 years old.
```

Change example 2 so that it produces the following output:

```
Example 2:
2 + 7 = 9;
```

Change example 3 so that it produces the following output:

```
Example 3:
The perimeter of a square with side 3 is 12.
```

Change example 4 so that it produces the following output:

```
Example 4:
3 digit number: 456
Hundreds: 4, Tens: 5, Ones: 6
```

Change example 5 so that it produces the following output:

```
Example 5:
21 is 3 times 7
Hint1: there should be no need to modify the branch that is not executed
Hint2: if I changed 21 to 28 or any other multiple of 7 your code should
       still provide correct output (e.g. 28 is 4 times 7)
```

Change example 6 so that it produces the following output:

```
Example 6:
o
oo
ooo
oooo
```

Change example 7 so that it reads in three numbers from the user
and produces the following output:

```
Example 7:
Number1: 2
Number2: 4
Number3: 6
Number   Square  Cube
2        4       8
4        16      64
6        36      216
```

Max Points: 30

Turning in:

Turn in **A2_*YourName*.java** via Virtual Campus.