

CIST 2371 Introduction to Java

Unit 02 Lab (Chapters 3 & 4)

Due Date: _____

Part 1

Create a folder called Unit02 and put all your source files in this folder.

Write a program that prompts the user to enter an integer. The program then determines (using one or more decision statements) the following three things:

Is the number divisible by both 5 and 6?

Is the number divisible by 5 or 6?

Is the number divisible by 5 or 6 but not both?

Hint: you might want to use the &&, || and one other operator.

Here is a sample run

```
Enter an integer: 10
Is 10 divisible by 5 and 6? false
Is 10 divisible by 5 or 6? true
Is 10 divisible by 5 or 6 but not both? true
```

Write, test and turn in the program via the drop box. Name the source file **Unit02P1.java**. Make sure your program does in fact validate the data and displays an error message if the input from the user is not valid. Hint: the hard part of this is to validate the data.

Part 2

Write a program (using a loop) that prompts the user to enter the number of students and each student's name and score, and finally displays the name of the of the student with the highest score and the name of the student with the second highest score.

Write, test and turn in the program via the dropbox. Name the source file **Unit02P2.java**. Make sure your program does in fact validate the data and displays an error message if the input from the user is not valid. You'll want to use a loop of course. Think about how you would do this by hand using pencil and paper.

What To Turn In

You will zip up the source code files from both parts in their folder and ONLY the source code files, into a zip file named Unit02_<your first initial><your lastname>.zip. For example Tom Smith's zip file would look like this: Unit02_tsmith.zip

Be sure to test this file before turning it in. Copy it into a temp folder, unzip it and try to compile and run the files in that temp folder.

Once you are satisfied that your zip file is ok, turn it in via the ANGEL drop box for this Unit.

The Comment Block

EVERY source code file you turn in for this course must have the comment block handed out in class (customized for the situation) or you will get no credit (kind of like forgetting to put your name on your term paper – bad move).