CSC 1301 – SPRING 2020
HOMEWORK #4
Mar 10th 2020 —11:59PM

Submission Requirements
*You must turn work at the SPECIFIED TIME so you can receive credit for Homework!
Homework 4 **must be submitted on icollege** by the due date and time. Late homework
will be subject to a penalty, as stated in the course grading policy. No email or hard
copies of homework will be accepted.*

You may discuss the assignments with other students in the class, but (as stated in the
academic honesty policy) your written answers **must be your own**, and you must list the
names of other students you discussed the assignment with.

Make sure your java program has a comment at the beginning that includes your name
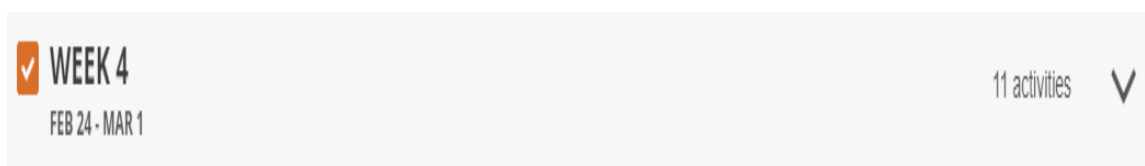and the fact that this is homework 4.
Make sure your program is properly indented.
You can use methods to provide structure to your program.
After you have written it, compile it and run it to make sure it works.

**Your file must compile, if it does not compile then you will get a zero for your
submission. No empty files or corrupt files will be accepted either. Please make sure
the correct version of your file is uploaded.**

Part A – Mind-Tap Worth a total of 40%

Part B – Eclipse Dr Java or any other IDE/Java Worth a total of 60%

For this question you must write a program in Java as described below.

Make sure your java program has a comment at the beginning that includes
your name and the fact that this is homework 5.

Make sure your program is properly indented.

After you have written it, compile it and run it to make sure it works.

Then submit to ICollege your .java file and your .class file.

Program #1: Write a java program (called **payroll.java**) that reads worker's payroll information and computes the amount of pay for a worker. The worker's payroll information to read (using proper prompts) includes:

- Employee's name
- Number of hours worked
- Hourly rate of pay
- Federal tax rate

The program then computes and displays the following outputs with appropriate labels. Use the tab escape character **or** " " to align your outputs after the labels. The gross pay is the hours worked times the hourly rate, and the net pay is the gross pay minus all taxes.

Employee name
Hours worked
Hourly rate
Gross pay
Tax deducted
Net pay

Program #2: Write a program (called **ICalledyou.java**) that uses method calls.

The program should work as follows:

1) Reads in two numbers from user input and calculate the product of this two number then print out the result.

2) Reads in two numbers from user input then print out the greater one.
   You could use *max()* function from Math class

Bonus Program #3 Challenge Problem: Write a program Name **NumberGrid** that calls a method called printGrid that accepts two integers representing a number of rows and columns and prints a grid of integers from 1 to (rows*columns) in column major order. For example the call printGrid(4,6);

Should produce the following output: This is just a sample of numbers it is not in any order.

In-order to do this you will have to use a nested for loop

```
1 5  9  13 17 21
2 6 10 14 18 22
3 7 11 15 19 23
4 8 12 16 20 24
```