WORKSHEET 05A – In class on week 2 day 3

	Reading/studying C. 5.1-5.4 • Textbook • Slides • Chapter Summary (at the end of the chapter lessons) Keep your notes .
	Do pair programming for the following problems, switching every 7 minutes.
1	**`ElevatorSimulation2`**: Write a console program to use ***relational operators***: This is to simulate the usage of an elevator with 19 floors, where the floors are numbered so that there is not a floor numbered 13: Floor Number | Actual Floor 1-12 | 1-12 14-20 | 13-19 a) Download **ElevatorSimulation2ATDP.java** from your instructor b) Complete the code Use the debugger to "step" to understand the flow of control
2	**P 5.2:** Write a console program to calculate tax amount, using nested and multi-way "if" Use the debugger to "step" to understand the flow of control
	(cont. next page)

3 **PayCheck**

Create a class named PayCheck with the 3 parts:

Fields: - employee's Name: String - hourly wage: double - hours worked: double
Constructors: + PayCheck param: employee's name, of type String param: hourly wage
Methods + addHours: param of double type: hours to be added to hours worked + raisePay: param of double type: dollar amount to increase the hourly wage + calcWeekPay: return of double type: dollar amount of the pay, *Note:* • *The pay amount is the result of multiplying hourly wage by hours worked* • *If the number of hours worked is more than 40, then the amount of time beyond 40 is 1.5 times the hourly wage* • *Reset the number of hours worked to zero* + toString: return of String type: a sentence including employee's name, hours worked, hourly wage, shown as underlined in the following example: **Golden Bear worked for 45.0 hours at $15/0 per hour**

Download PayCheckPrinter.java from your instructor to test with your class.

The following is the result from running PayCheckPrinter:

Golden Bear worked for 14.0 hours at $12.0 per hour
This week's pay is $168.0
Golden Bear worked for 26.0 hours at $13.0 per hour
This week's pay is $338.0
Golden Bear worked for 38.0 hours at $14.0 per hour
This week's pay is $532.0
Golden Bear worked for 50.0 hours at $15.0 per hour
This week's pay is $825.0

- Copy the source code from each other to keep – each student must have the working code.
- Submit online: .java files.

THE END