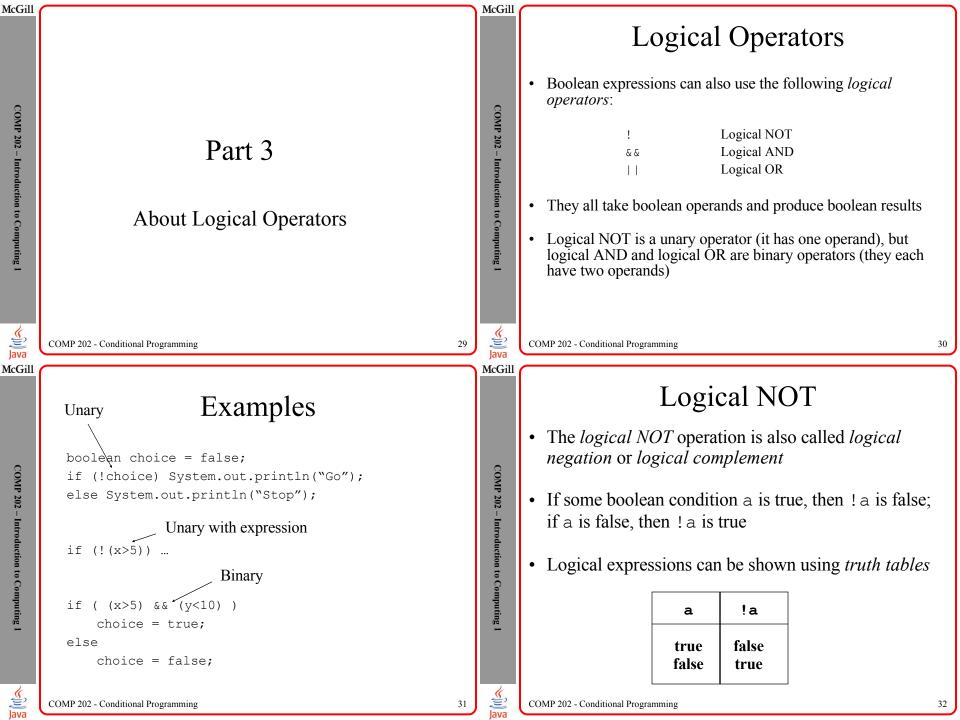
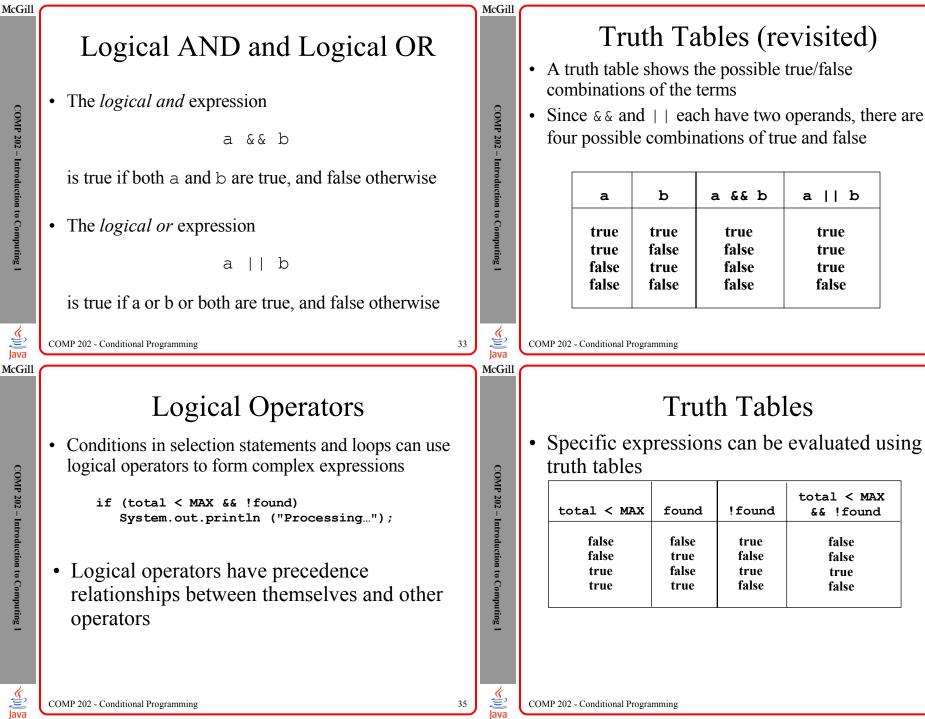


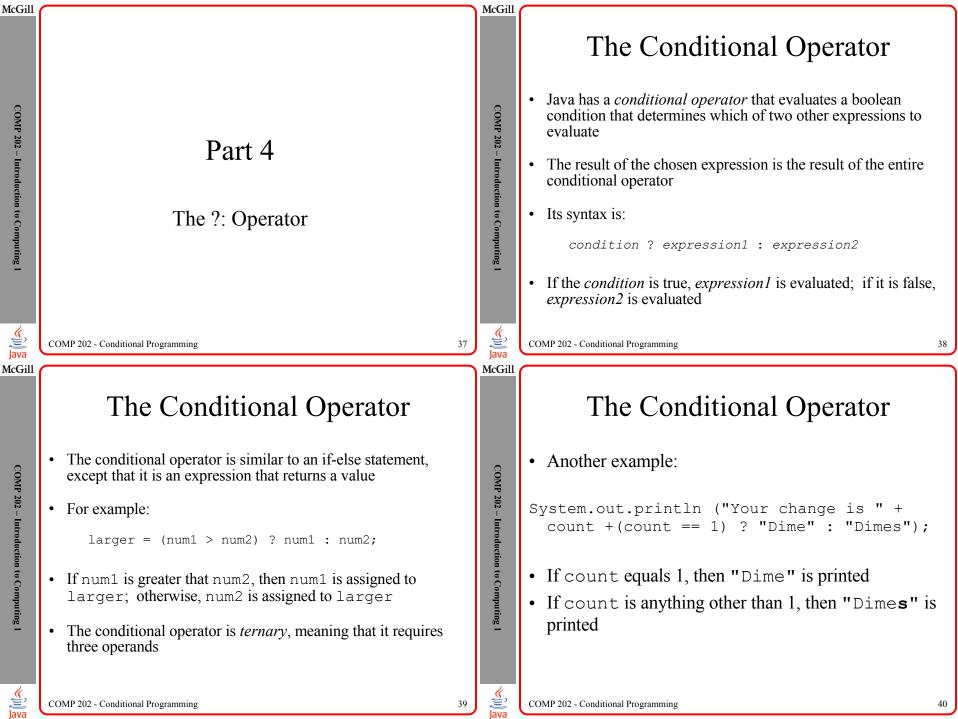
McGill		McGill	
	Example		The switch Statement
COMP 202 – Introduction to Computing 1	<pre>char grade; String input = scan.next(); // Input A, B, C, F grade = input.charAt(0); // Input A, B, C, F switch(grade) { case 'A': case 'B': case 'E': System.out.println("pass"); break; case 'F': System.out.println("fail"); break; default: System.out.println("Sorry, no other choices!"); } </pre>	COMP 202 – Introduction to Computing 1	 The expression of a switch statement must result in an <i>integral data type</i>, like an integer or character; it cannot be a floating point value, nor a String Note that the implicit boolean condition in a switch statement is equality - it tries to match the expression with a value (it is never <, <=, >, nor >=) You cannot perform relational checks with a switch statement
لن Java	COMP 202 - Conditional Programming 25	Java	COMP 202 - Conditional Programming 26
McGill	Drinks.java 1/2	McGill	Drinks.java ^{2/2}
COMP 202 – Introduction to Computing 1	<pre>System.out.println ("Here is the drinks menu : "); System.out.println ("1.\tOrange juice"); System.out.println ("2.\tMilk"); System.out.println ("3.\tWater"); System.out.println ("4.\tWine"); System.out.println ("5.\tBeer"); System.out.print ("What will it be ? "); int choice = scan.nextInt(); switch (choice) { case 1: System.out.println ("Vitamin C!"); case 2: System.out.println ("Your bones will thank you."); break;</pre>	COMP 202 – Introduction to Computing 1	<pre>case 3: System.out.println ("The classics never die."); break; case 4: System.out.print ("Red or white ? "); String type = scan.next(); boolean isRed = (type.toLowerCase()).equals("red"); if (isRed) System.out.println ("Good for your heart."); else System.out.println ("Good for your lungs."); break; case 5: System.out.println ("Watch that belly!"); break; default: System.out.println ("That's not going to quench your thirst"); }</pre>
(III)	COMP 202 - Conditional Programming 27	S	COMP 202 - Conditional Programming 28





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McGill
                                Wages2.java
         final double RATE = 8.25; // regular pay rate
        final int STANDARD = 40; // standard hours in a work week
        boolean isProf;
                                   // is the worker a professor or not?
        double pay = 0.0;
        Scanner scan = new Scanner(System.in);
        System.out.print ("Enter the number of hours worked: ");
        int hours = scan.nextInt();
        System.out.print ("Are you a professor (Y/N)? ");
        String answer = scan.next();
        if ( answer.equalsIgnoreCase("Y") ) {
           isProf = true;
           System.out.println("Sorry...Overtime does not apply to YOUR kind.");
        }
        else
           isProf = false;
        pay = (hours > STANDARD && !isProf) ?
            STANDARD*RATE+(hours-STANDARD)*(RATE*1.5) : hours*RATE;
        System.out.println ("Gross weekly earnings: " + pay);
        COMP 202 - Conditional Programming
```

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