Review of yesterday’s concepts

Assume that this worksheet is sequential. If a variable is assigned to a new value in the problem previously then that variable keeps its new assignment.

**Problem 1.0.** What are the eight types of Primitives?

**Problem 1.1.** Write code that will declare:

- two variables of type integer called i0 and i1
- two variables of type double called d0, d1
- a variable of type char called c0
- two variables of type String called s0, s1

**Problem 1.2.** Write code that will assign:

- i0 to 42, i1 to 5
- d0 to 2.0, d1 0.0
  
  – previously d1 was left unassigned. However, this was erroneous. While instance variables will be assigned default values (we’ll get into instance variables in about a week or so). **Local variables** (the variables we’ve been creating) are left uninitialized and it’s a compile time error when you try to access them.

- c0 to ‘G’
- s0 to ”Let’s code “, and s1 to “Java!”

**Problem 1.3.** Write code that will initialize:

- a variable of type long called l0 to 69933352
- a variable of type float called f0 to 154433.12

**Problem 1.4.** What will the following code print?

1. System.out.print(“d0” + “ * ” + “d1” + “= ”);
   System.out.println(d0 * d1);

2. d0 = 13.5;
   System.out.println(“d0 + d1 =” + d0 + d1);

3. System.out.println(s0 + s1);
4. System.out.println(c0+=5);

5. System.out.println("i0/i1=" + (i0/i1));

6. System.out.println(d0 == 2.0);