

Variable Definitions PreLab Assignment

Before coming to lab complete this worksheet and show it to the TA prior to pairing up with your partner.

A. Declare a variable for each of the following using the Java naming conventions and a descriptive identifier. Use all of the Java primitive data types. The first one is shown as an example.

1. `byte numPeople` = 3; // number of people
2. `double price` = 32.32; // price of an item
3. `boolean flag` = false; // value of a boolean flag
4. `char data` = 'a'; // character data value
5. `int class` = 207; // class room number
6. `double dinner` = 30.0F; // price of dinner
7. `long num` = 990123456789L; // a rather long number
8. `short num2` = 177609; // not quite as long of a number

B. Initialize the value of each of the following variables. Be sure to use a valid value for the data type as demonstrated in the first one.

1. `int count` = 42;
2. `double total` = 5.45;
3. `char stopKey` = 's';
4. `boolean stopFlag` = false;
5. `float temperatureReading` = 62.4 x 10^30;
6. `byte numPets` = 3;
7. `short littleNum` = 400;
8. `long reallyBigNumber` = 4594958745;

C. How is a constant created in Java? by writing "final" before the declaration
What happens if you try to assign a value to a constant?

It will cause an error