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**Exercise on Lesson 2**

1. What are the three main types of variables used in Java and what are they used to store?

**int – Integer values (both positive and negative)**

**double – Decimal values**

**String – Strings of characters**

1. What type of variable would you use to store your name?

**String**

1. What type of variable would you use to store the square root of 2?

**double**

1. What type of variable would you use to store your age?

**int**

1. Write a single line of code that will create a double precision variable called *p* and store 1.921 X 10-26 in it.

**double p = 1.921E-26;**

1. Write a single line of code that will create an integer variable called *i* and store 407 in it.

**int i = 407;**

1. Write a single line of code that will create a *String* variable called *my\_name* and store your name in it.

**String my\_name = “Eric Winsor”;**

1. Write a line of code that will **declare** the variable *count* to be of type *int*. Don’t initialize.

**int count;**

1. Write a line of code that **initializes** the double precision variable *bankBalance* to 136.05. Assume this variable has already been declared.

**bankBalance = 136.05;**

1. Which of the following are legal variable names?

scooter13 139\_scooter homer-5 ;mary public doubled double ab c

**scooter13 doubled**

1. Which of the following is the most acceptable way of naming a variable. Multiple answers are possible.
   1. GroovyDude
   2. GROOVYDUDE
   3. groovyDude
   4. Groovydude
   5. groovy\_dude
   6. groovydude
2. **groovyDude**
3. **groovy\_dude**
4. Comment on the legality of the following three lines of code.

double dist = 1003;

int alt = 1493.86;

int num = 1\_2\_3;

**The first line of code is legal because an integer value can be stored in a double.**

**The second line of code is illegal because a decimal value cannot be stored in an int.**

**The third line of code is legal because numeric values can be separated by underscores.**