# Variable Worksheet

# ITEC 2140

To submit:

1. The completed Word document

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Write one line of **valid** **compilable** java code to declare and initialize the following. Do not forget your symbol that ends a Java statement. Assume you are inside of the main method:

1. An integer value of 43, identifier is num1

\_\_\_int num1 = 43;\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. An integer value of 20000, identifier is num2

\_\_\_int num2 = 20000;\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. A double value of one third, name is small

\_\_\_double small = 1d/3d;\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. A String value of “Hola”, identifier is greeting

\_\_\_String greeting = “Hola”;\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. A String value of  “Bonjour”, identifier is msg

\_\_\_String msg = “Bonjour”;\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. A boolean named isRed, value is false

\_\_\_boolean isRed = false;\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. A char named myChar, value of ‘!’ (NOTE the single quotes)

\_\_\_char myChar = ‘!’;\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Declare an identifier of type String with an identifier of college. Set the variable to “GGC”

\_\_\_String college = “GGC”;\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Using the variables that you declared and initialized in 1-8, write one line of **valid compilable** java code to perform the following:

1. Print the product of num1 and num2 to the console

\_\_\_System.out.println(num1 \* num2);\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Print the result of dividing num2 by small

\_\_\_System.out.println((num2 / 1d) / small);\_\_\_\_\_\_\_\_\_

1. Print “I attend GGC” to the console, using the variable you created named college

\_\_\_System.out.println(“I attend ” + college);\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Print “GGC” 3 times, on the same line, using the variable college, using one line of code. Your output should look like this – “GGC GGC GGC” (Notice the blanks)

\_\_\_System.out.println(college + “ ” + college + “ ” + college);\_\_\_\_\_\_\_\_

1. Print the greeting concatenated with college concatenated with myChar using 3 variables in one line of code. Your output should look like “Hola GGC!”

\_\_\_System.out.println(greeting + “ ” + college + myChar);\_\_\_\_\_\_\_\_\_\_\_\_

1. Print the value of isRed to the console

\_\_\_System.out.println(isRed);\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Concatenate the value of isRed with myChar. Print to the console. Write one line of code

\_\_\_System.out.println(“” + isRed + myChar);\_\_\_\_\_\_\_\_\_\_

1. What are the eight primitive types in Java?

\_\_\_byte, short, int, long, float, double, char, boolean\_\_\_\_\_\_\_\_\_

1. For following answer **class** or **primitive type**

|  |  |
| --- | --- |
| **Java Data Type** | **Is this a class or primitive type?** |
| Scanner | class |
| float | primitive type |
| String | class |
| byte | primitive type |
| System | class |
| char | primitive type |
| long | primitive type |
| boolean | primitive type |
| ArrayList | class |
| PrintStream | class |