

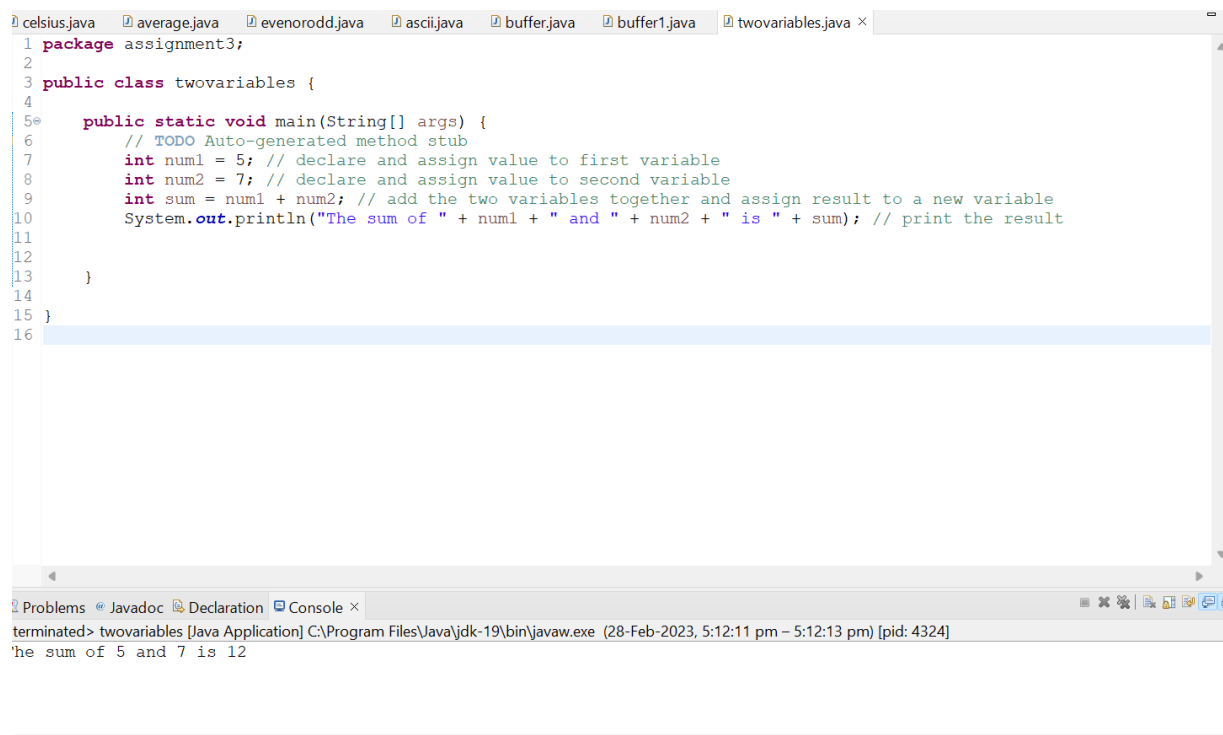
Java Assignment-3

Variables ,Data types and String manipulations

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1.Declare two variables of type int, and assign values to them. Add the two variables together and print the result.

<https://codeshare.io/8pILbD>



```
1 package assignment3;
2
3 public class twovariables {
4
5     public static void main(String[] args) {
6         // TODO Auto-generated method stub
7         int num1 = 5; // declare and assign value to first variable
8         int num2 = 7; // declare and assign value to second variable
9         int sum = num1 + num2; // add the two variables together and assign result to a new variable
10        System.out.println("The sum of " + num1 + " and " + num2 + " is " + sum); // print the result
11
12    }
13
14 }
15 }
16
```

terminated> twovariables [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (28-Feb-2023, 5:12:11 pm – 5:12:13 pm) [pid: 4324]
The sum of 5 and 7 is 12

2. Declare two variables of type double, and assign values to them. Multiply the two variables together and print the result.

<https://codeshare.io/wnvYMj>

```
doublee.java x
1 package assignment3;
2
3 public class doublee {
4
5     public static void main(String[] args) {
6         // TODO Auto-generated method stub
7         double num1 = 3.5; // declare and assign value to first variable
8         double num2 = 2.0; // declare and assign value to second variable
9         double product = num1 * num2; // multiply the two variables together and assign result to a new variable
10        System.out.println("The product of " + num1 + " and " + num2 + " is " + product); // print the result
11
12    }
13
14 }
15
16
```

Problems Javadoc Declaration Console x

<terminated> doublee [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (28-Feb-2023, 5:20:15 pm – 5:20:17 pm) [pid: 3372]
The product of 3.5 and 2.0 is 7.0

3. Declare two variables of type boolean, and assign values to them. Print out the value of the logical AND operator applied to the two variables.

<https://codeshare.io/bvORAv>

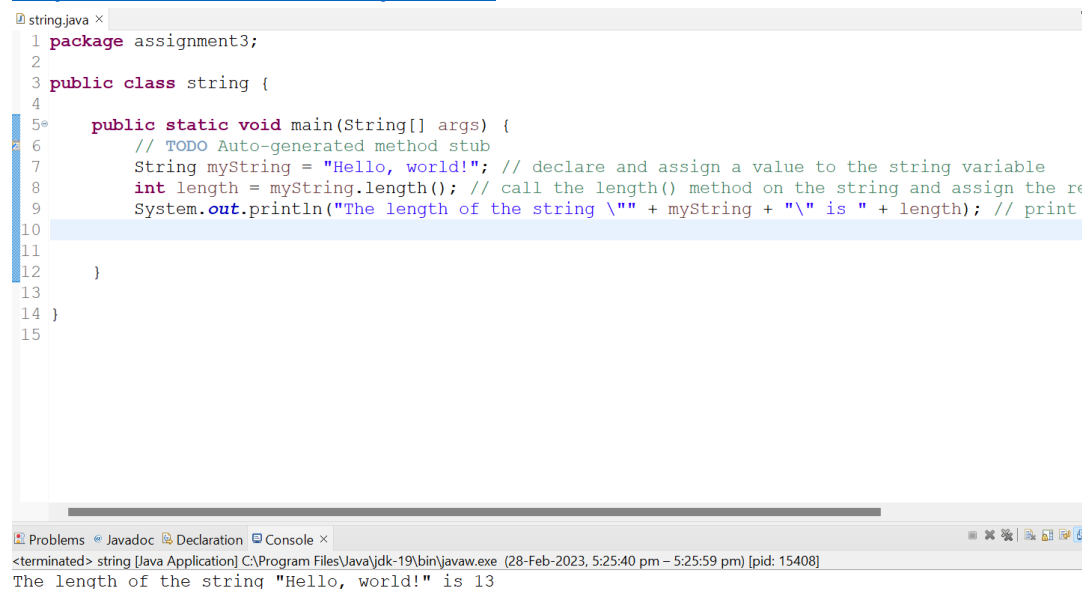
```
booleann.java x
1 package assignment3;
2
3 public class booleann {
4
5     public static void main(String[] args) {
6         // TODO Auto-generated method stub
7         boolean bool1 = true; // declare and assign value to first variable
8         boolean bool2 = false; // declare and assign value to second variable
9         boolean result = bool1 && bool2; // apply the logical AND operator to the two variables and assign result to a new variable
10        System.out.println("The result of the logical AND operator applied to " + bool1 + " and " + bool2 + " is " + result); // print the
11
12    }
13
14 }
15
16
```

Problems Javadoc Declaration Console x

<terminated> booleann [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (28-Feb-2023, 5:22:51 pm – 5:22:53 pm) [pid: 12372]
The result of the logical AND operator applied to true and false is false

4. Declare a variable of type String, and assign it a value. Use the String class method length() to print out the length of the string.

<https://codeshare.io/mpbxW0>



```
1 package assignment3;
2
3 public class string {
4
5     public static void main(String[] args) {
6         // TODO Auto-generated method stub
7         String myString = "Hello, world!"; // declare and assign a value to the string variable
8         int length = myString.length(); // call the length() method on the string and assign the result to the variable length
9         System.out.println("The length of the string \"" + myString + "\" is " + length); // print the length of the string
10
11
12     }
13 }
14 }
15 }
```

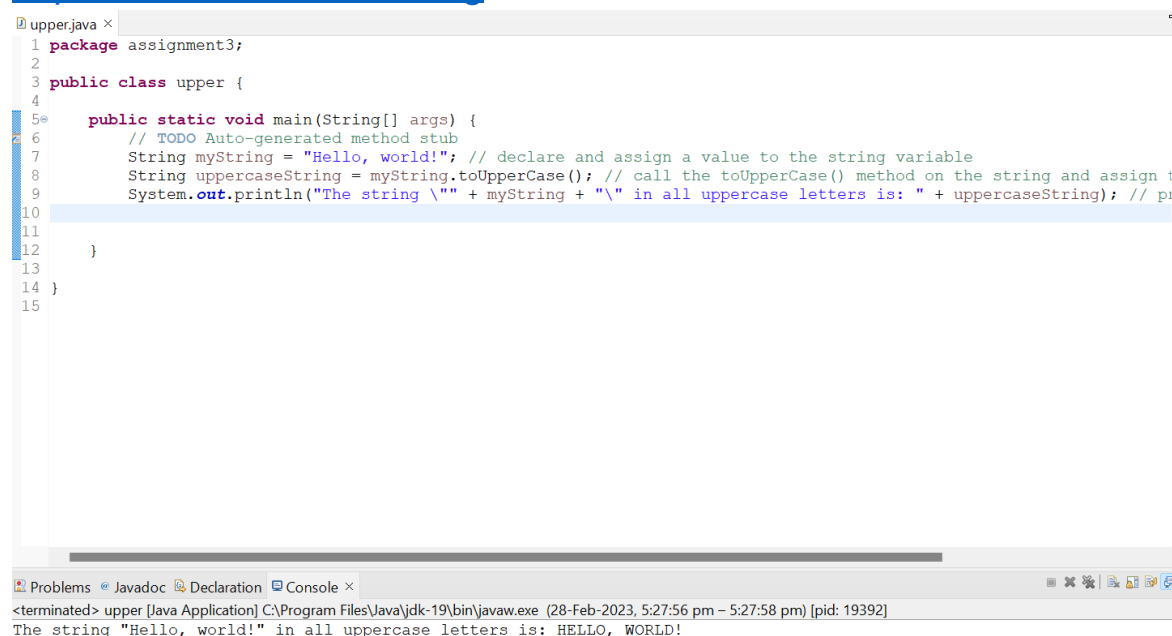
Problems Javadoc Declaration Console x

<terminated> string [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (28-Feb-2023, 5:25:40 pm – 5:25:59 pm) [pid: 15408]

The length of the string "Hello, world!" is 13

5. Declare a variable of type String, and assign it a value. Use the String class method toUpperCase() to print out the string in all uppercase letters.

<https://codeshare.io/LwE81g>



```
1 package assignment3;
2
3 public class upper {
4
5     public static void main(String[] args) {
6         // TODO Auto-generated method stub
7         String myString = "Hello, world!"; // declare and assign a value to the string variable
8         String uppercaseString = myString.toUpperCase(); // call the toUpperCase() method on the string and assign the result to the variable uppercaseString
9         System.out.println("The string \"" + myString + "\" in all uppercase letters is: " + uppercaseString); // print the uppercase string
10
11
12     }
13 }
14 }
15 }
```

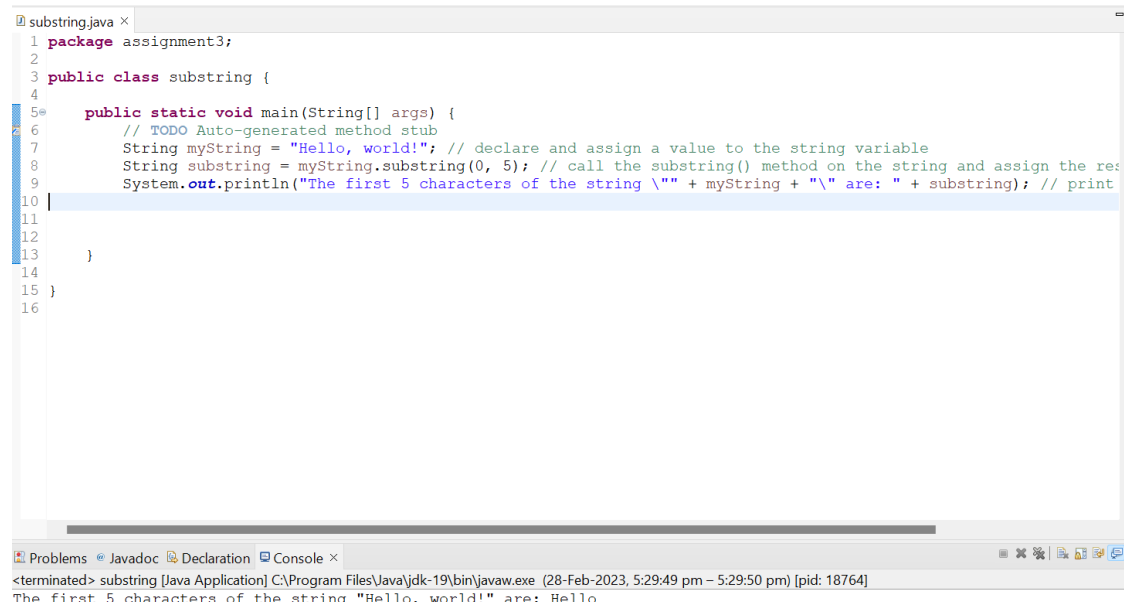
Problems Javadoc Declaration Console x

<terminated> upper [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (28-Feb-2023, 5:27:56 pm – 5:27:58 pm) [pid: 19392]

The string "Hello, world!" in all uppercase letters is: HELLO, WORLD!

6. Declare a variable of type String, and assign it a value. Use the String class method substring() to print out a portion of the string.

<https://codeshare.io/LwE81g>



```
1 package assignment3;
2
3 public class substring {
4
5     public static void main(String[] args) {
6         // TODO Auto-generated method stub
7         String myString = "Hello, world!"; // declare and assign a value to the string variable
8         String substring = myString.substring(0, 5); // call the substring() method on the string and assign the result to a new variable
9         System.out.println("The first 5 characters of the string \"" + myString + "\" are: " + substring); // print the result
10
11     }
12
13 }
14
15 }
16
```


Problems Javadoc Declaration Console x

<terminated> substring [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (28-Feb-2023, 5:29:49 pm - 5:29:50 pm) [pid: 18764]

The first 5 characters of the string "Hello, world!" are: Hello

7. Declare a variable of type String, and assign it a value. Use the String class method indexOf() to find the index of a specific character in the string.

<https://codeshare.io/ZJEWYz>



```
1 index.java x
2 package assignment3;
3
4 public class index {
5
6     public static void main(String[] args) {
7         // TODO Auto-generated method stub
8
9         String str = "Hello, world!";
10        char targetChar = 'o';
11        int index = str.indexOf(targetChar);
12        System.out.println("Index of '" + targetChar + "' in string '" + str + "' is: " + index);
13    }
14
15 }
16
17 }
18
19
```

Problems Javadoc Declaration Console x

<terminated> index [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (28-Feb-2023, 5:33:33 pm - 5:33:35 pm) [pid: 10964]

Index of 'o' in string 'Hello, world!' is: 4

8. Declare a variable of type char, and assign it a value. Convert the character to its ASCII code and print out the result.

<https://codeshare.io/EBEQr4>



```
1 package assignment3;
2
3 public class ascii {
4
5     public static void main(String[] args) {
6         // TODO Auto-generated method stub
7
8         char c = 'A';
9         int asciiValue = (int) c;
10        System.out.println("The ASCII code for character " + c + " is " + asciiValue);
11    }
12
13 }
14
15
16
17
18
19
20
```

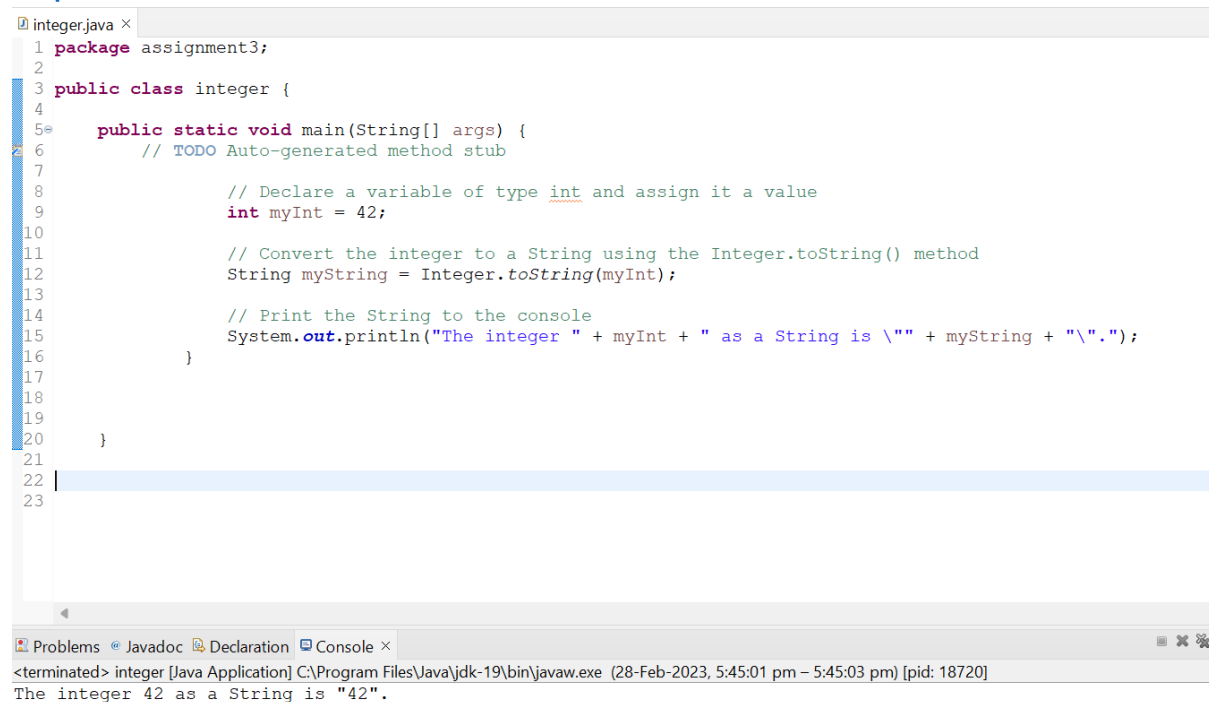
Problems Javadoc Declaration Console x

<terminated> ascii (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (28-Feb-2023, 5:38:35 pm – 5:38:39 pm) [pid: 15180]

The ASCII code for character A is 65

9. Declare a variable of type int, and assign it a value. Convert the integer to a String and print out the result.

<https://codeshare.io/9OLDeM>



```
1 package assignment3;
2
3 public class integer {
4
5     public static void main(String[] args) {
6         // TODO Auto-generated method stub
7
8         // Declare a variable of type int and assign it a value
9         int myInt = 42;
10
11        // Convert the integer to a String using the Integer.toString() method
12        String myString = Integer.toString(myInt);
13
14        // Print the String to the console
15        System.out.println("The integer " + myInt + " as a String is \"" + myString + "\".");
16    }
17
18
19
20
21
22
23
```

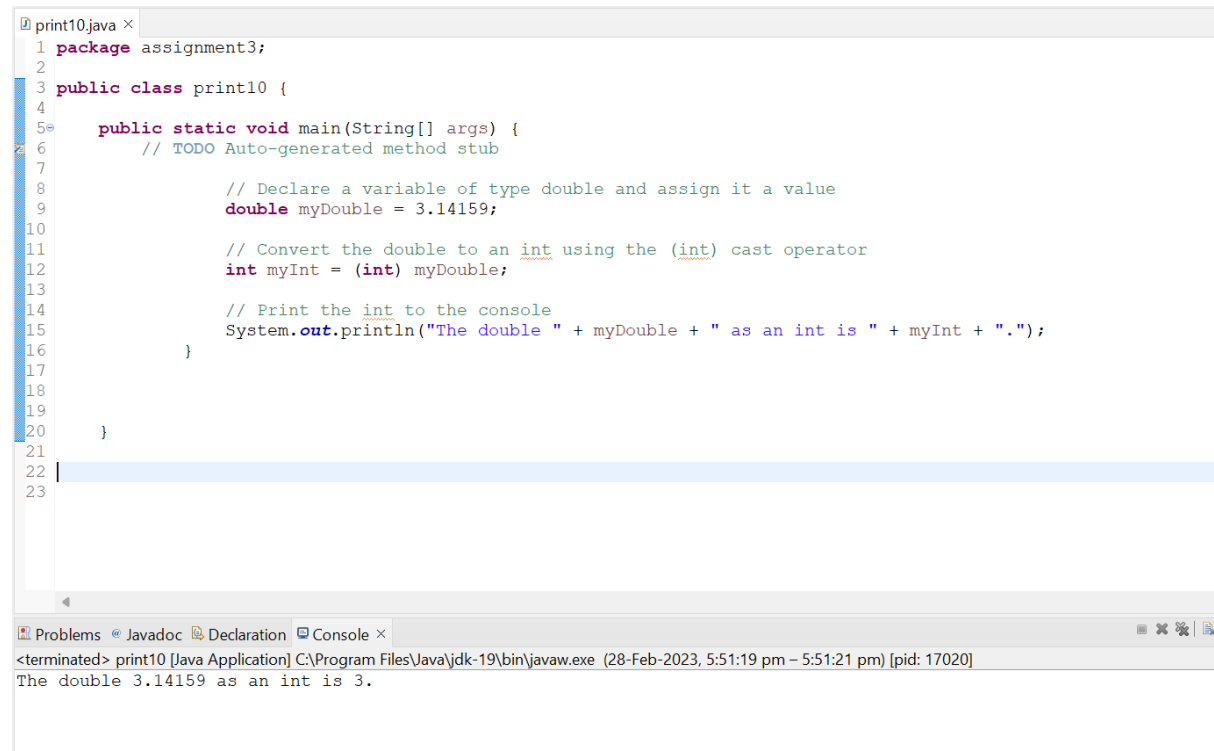
Problems Javadoc Declaration Console x

<terminated> integer [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (28-Feb-2023, 5:45:01 pm – 5:45:03 pm) [pid: 18720]

The integer 42 as a String is "42".

10. Declare a variable of type double, and assign it a value. Convert the double to an int and print out the result.

<https://codeshare.io/OdEoDN>



The screenshot shows an IDE with a Java file named `print10.java`. The code defines a package `assignment3`, a class `print10`, and a `main` method. Inside `main`, a `double` variable `myDouble` is assigned the value `3.14159`. This value is then cast to an `int` variable `myInt` using the `(int)` cast operator. Finally, the program prints a string that concatenates the original double value and the casted integer value. The console output at the bottom shows the program terminated successfully and printed the message: "The double 3.14159 as an int is 3."

```
1 package assignment3;
2
3 public class print10 {
4
5     public static void main(String[] args) {
6         // TODO Auto-generated method stub
7
8         // Declare a variable of type double and assign it a value
9         double myDouble = 3.14159;
10
11        // Convert the double to an int using the (int) cast operator
12        int myInt = (int) myDouble;
13
14        // Print the int to the console
15        System.out.println("The double " + myDouble + " as an int is " + myInt + ".");
16    }
17
18
19
20 }
21
22
23
```

Problems Javadoc Declaration Console ×

<terminated> print10 [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (28-Feb-2023, 5:51:19 pm – 5:51:21 pm) [pid: 17020]

The double 3.14159 as an int is 3.

-----THANK YOU-----

