

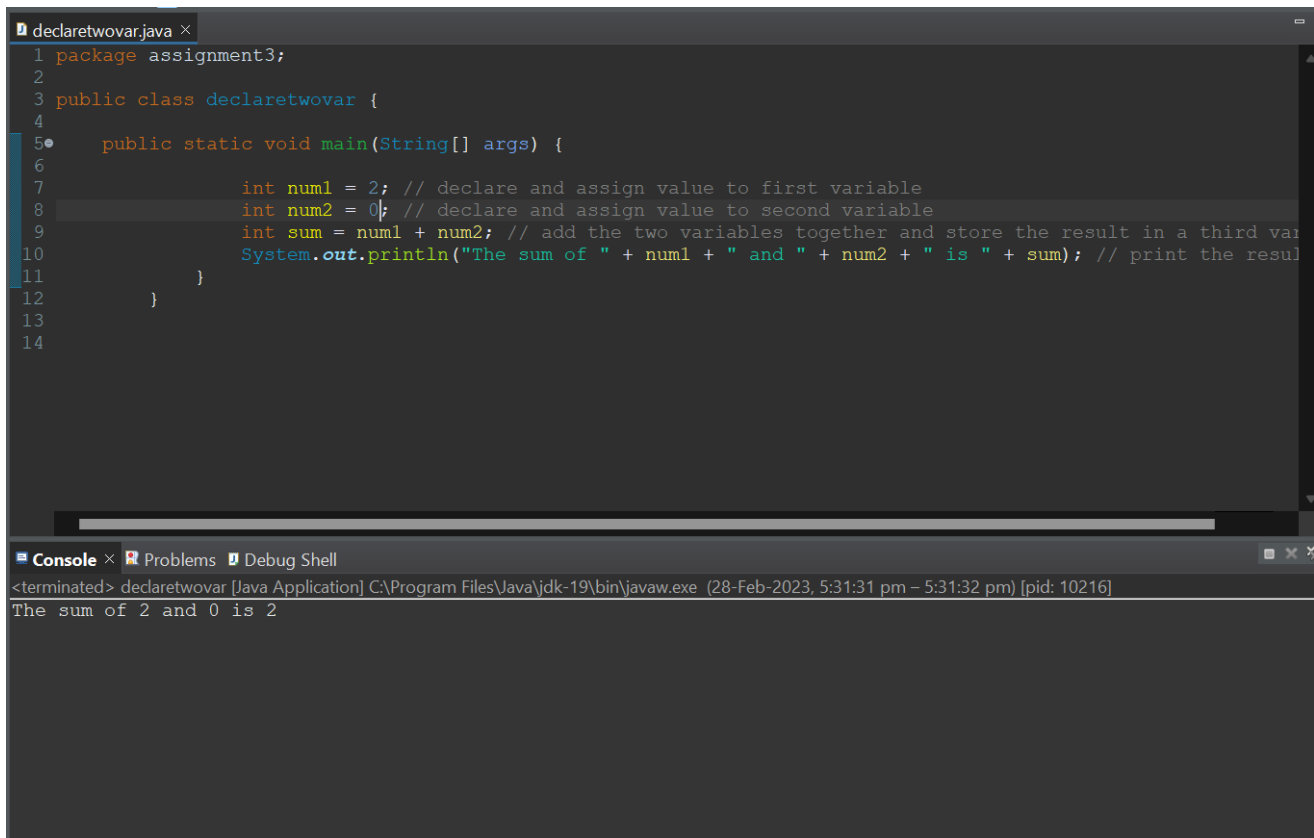
# Java Assignment – 3

Vishwas Cp

Tecnotree Mysore

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

<https://codeshare.io/mpbXjp>



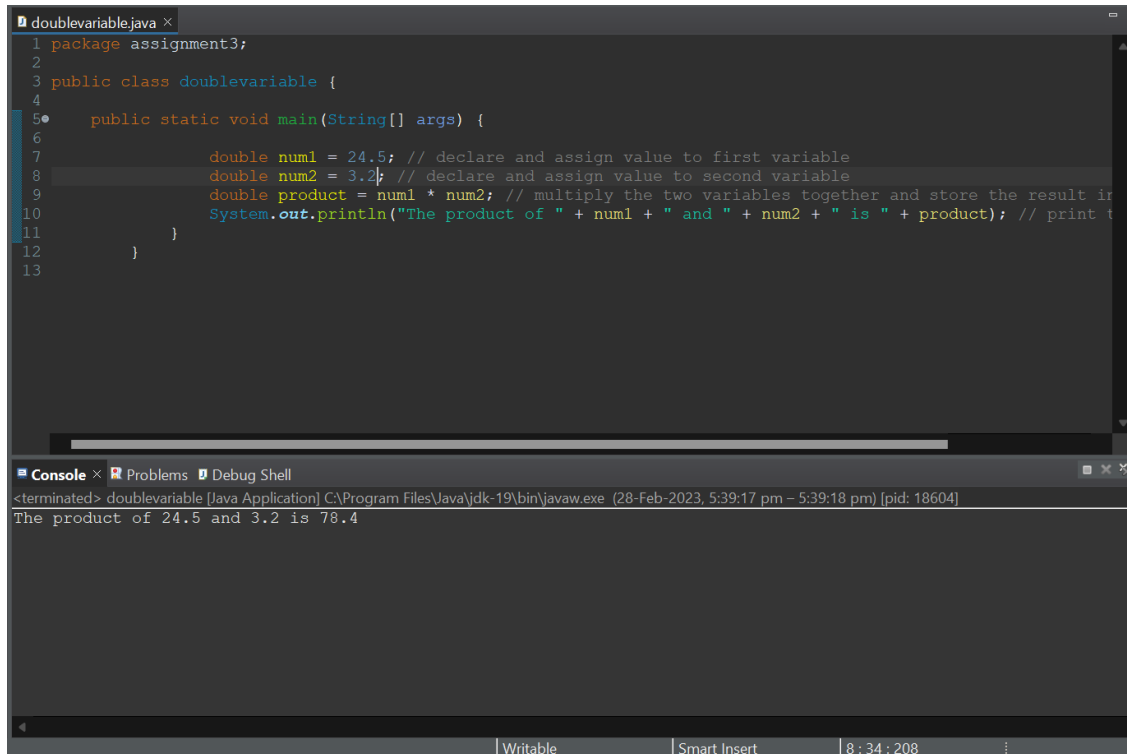
The screenshot shows an IDE window with a file named 'declaretwovar.java'. The code is as follows:

```
1 package assignment3;
2
3 public class declaretwovar {
4
5     public static void main(String[] args) {
6
7         int num1 = 2; // declare and assign value to first variable
8         int num2 = 0; // declare and assign value to second variable
9         int sum = num1 + num2; // add the two variables together and store the result in a third variable
10        System.out.println("The sum of " + num1 + " and " + num2 + " is " + sum); // print the result
11    }
12 }
13
14
```

Below the code editor is a console window. It shows the command prompt output: '<terminated> declaretwovar [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (28-Feb-2023, 5:31:31 pm – 5:31:32 pm) [pid: 10216]'. The output of the program is 'The sum of 2 and 0 is 2'.

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

<https://codeshare.io/gL9yey>



```
doublevariable.java ×
1 package assignment3;
2
3 public class doublevariable {
4
5     public static void main(String[] args) {
6
7         double num1 = 24.5; // declare and assign value to first variable
8         double num2 = 3.2; // declare and assign value to second variable
9         double product = num1 * num2; // multiply the two variables together and store the result in product
10        System.out.println("The product of " + num1 + " and " + num2 + " is " + product); // print the result
11    }
12
13 }
```

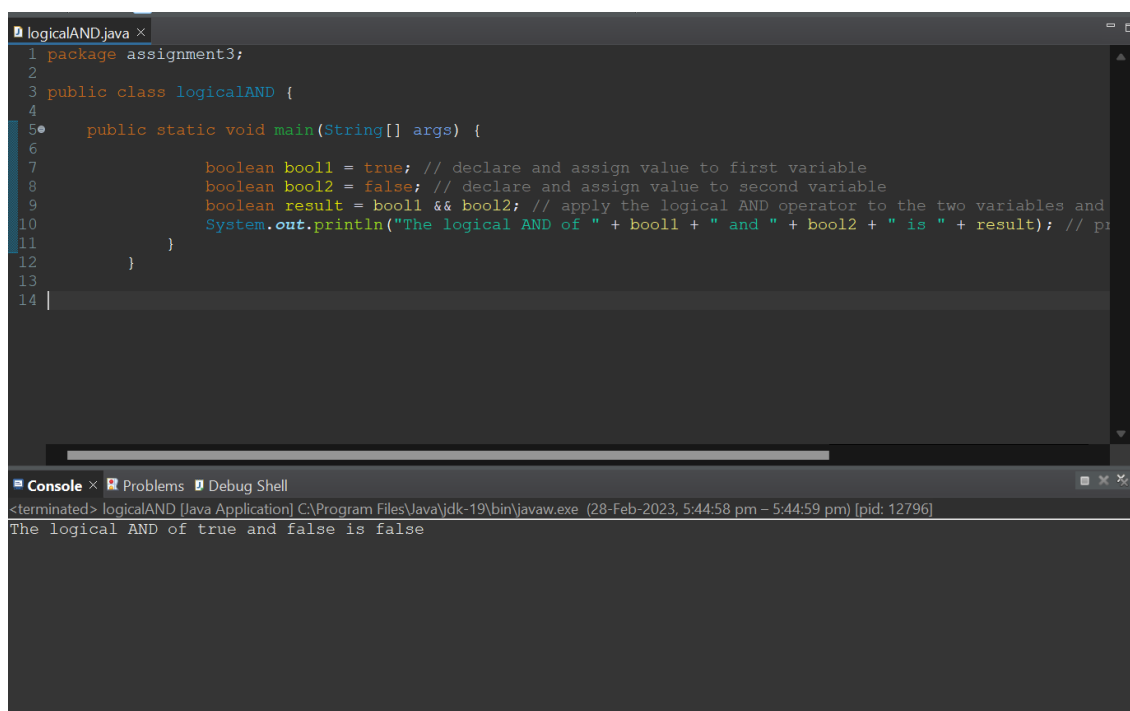
Console × Problems × Debug Shell

<terminated> doublevariable [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (28-Feb-2023, 5:39:17 pm – 5:39:18 pm) [pid: 18604]

The product of 24.5 and 3.2 is 78.4

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/X8E0Oz>



```
logicalAND.java ×
1 package assignment3;
2
3 public class logicalAND {
4
5     public static void main(String[] args) {
6
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 store the result in result
10        System.out.println("The logical AND of " + bool1 + " and " + bool2 + " is " + result); // print the result
11    }
12
13
14 }
```

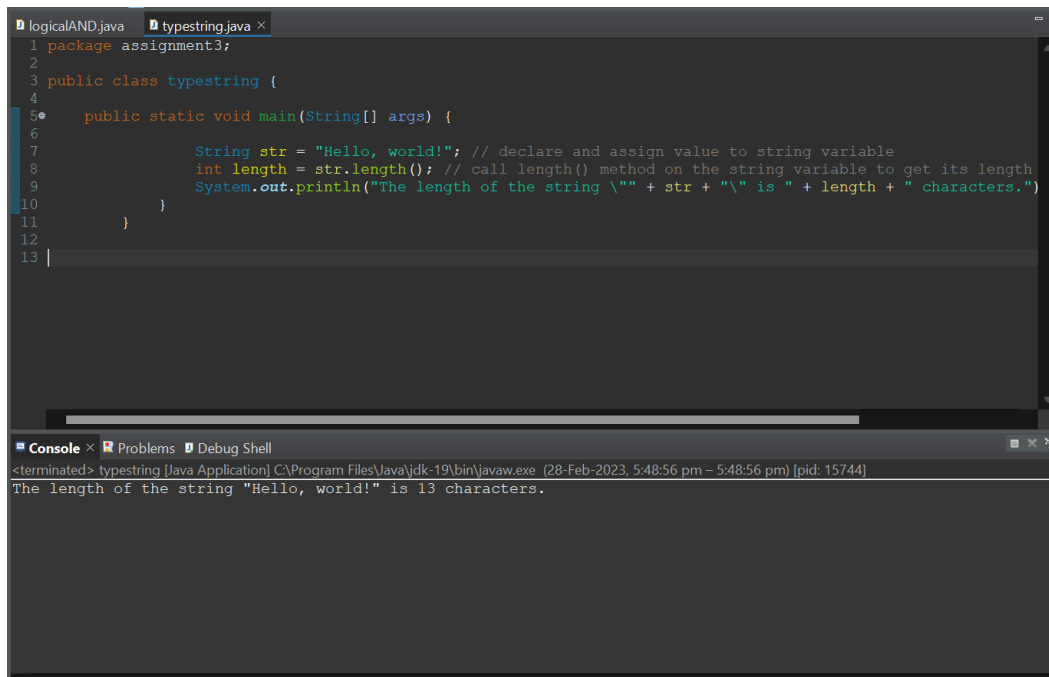
Console × Problems × Debug Shell

<terminated> logicalAND [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (28-Feb-2023, 5:44:58 pm – 5:44:59 pm) [pid: 12796]

The logical AND of 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/PdEOpY>



```
1 package assignment3;
2
3 public class typestring {
4
5     public static void main(String[] args) {
6
7         String str = "Hello, world!"; // declare and assign value to string variable
8         int length = str.length(); // call length() method on the string variable to get its length
9         System.out.println("The length of the string \"\" + str + "\" is \"\" + length + " characters.")
10     }
11 }
12
13
```

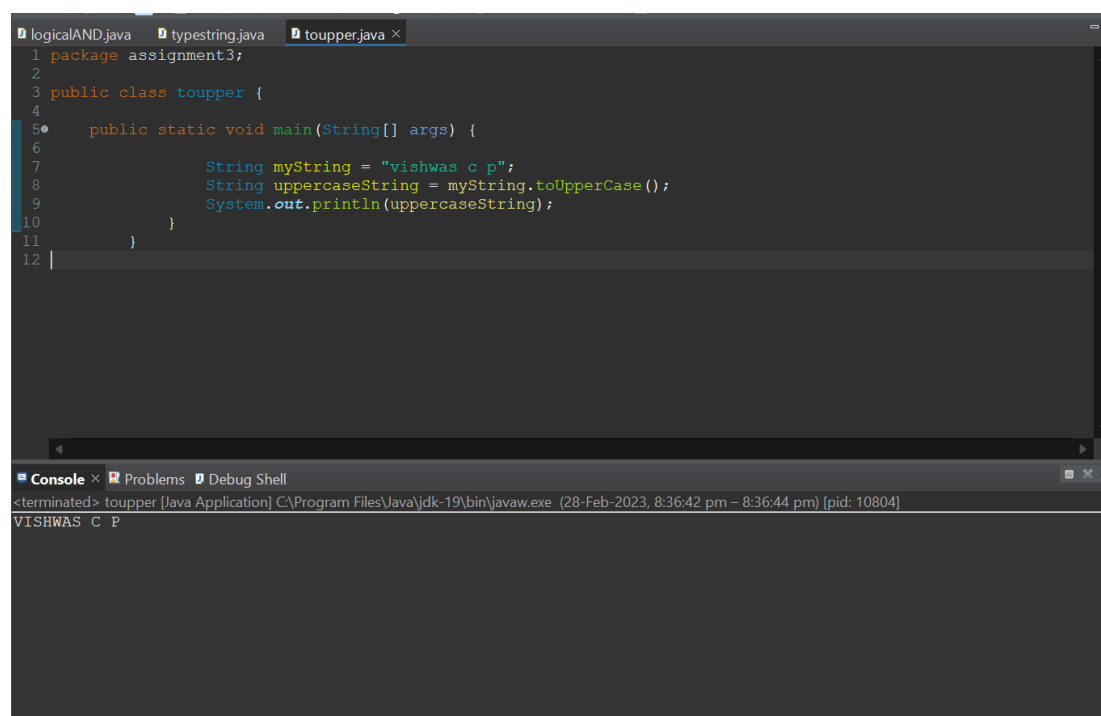
Console × Problems × Debug Shell

<terminated> typestring [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (28-Feb-2023, 5:48:56 pm – 5:48:56 pm) [pid: 15744]

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

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/YLE0WE>



```
1 package assignment3;
2
3 public class toupper {
4
5     public static void main(String[] args) {
6
7         String myString = "vishwas c p";
8         String uppercaseString = myString.toUpperCase();
9         System.out.println(uppercaseString);
10     }
11 }
12
```

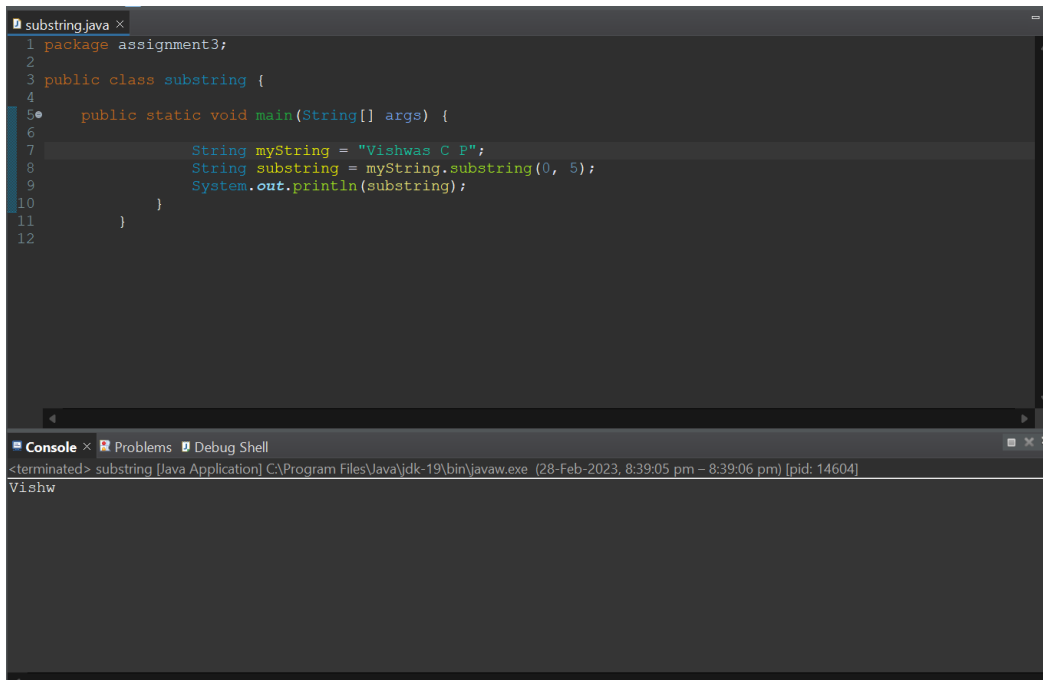
Console × Problems × Debug Shell

<terminated> toupper [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (28-Feb-2023, 8:36:42 pm – 8:36:44 pm) [pid: 10804]

VISHWAS C P

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/BA7pVx>



```
1 package assignment3;
2
3 public class substring {
4
5     public static void main(String[] args) {
6
7         String myString = "Vishwas C P";
8         String substring = myString.substring(0, 5);
9         System.out.println(substring);
10    }
11
12 }
```

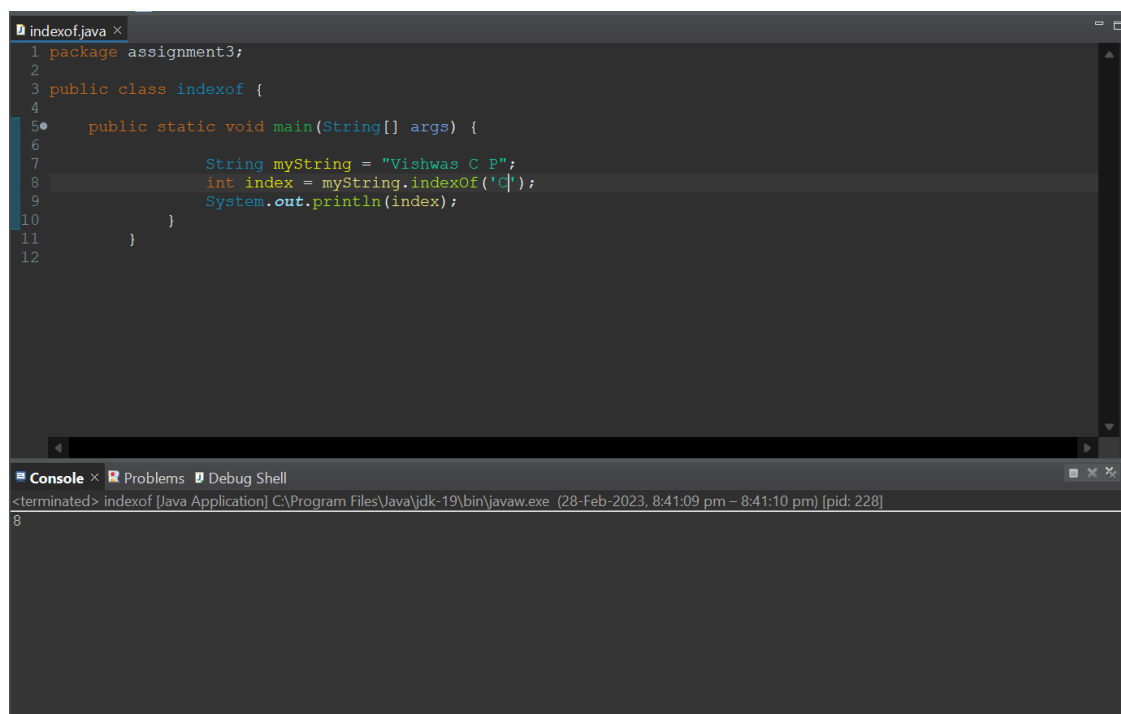
Console × Problems × Debug Shell

<terminated> substring [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (28-Feb-2023, 8:39:05 pm – 8:39:06 pm) [pid: 14604]

Vishw

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/X8EONz>



```
1 package assignment3;
2
3 public class indexof {
4
5     public static void main(String[] args) {
6
7         String myString = "Vishwas C P";
8         int index = myString.indexOf('C');
9         System.out.println(index);
10    }
11
12 }
```

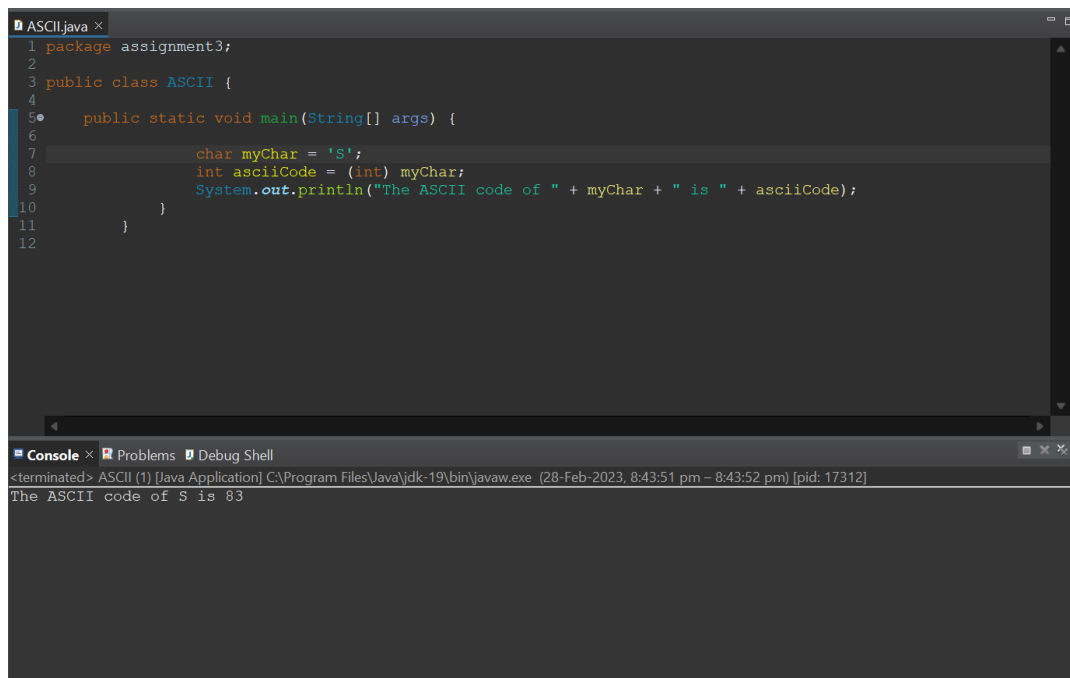
Console × Problems × Debug Shell

<terminated> indexof [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (28-Feb-2023, 8:41:09 pm – 8:41:10 pm) [pid: 228]

8

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/6pkMA0>

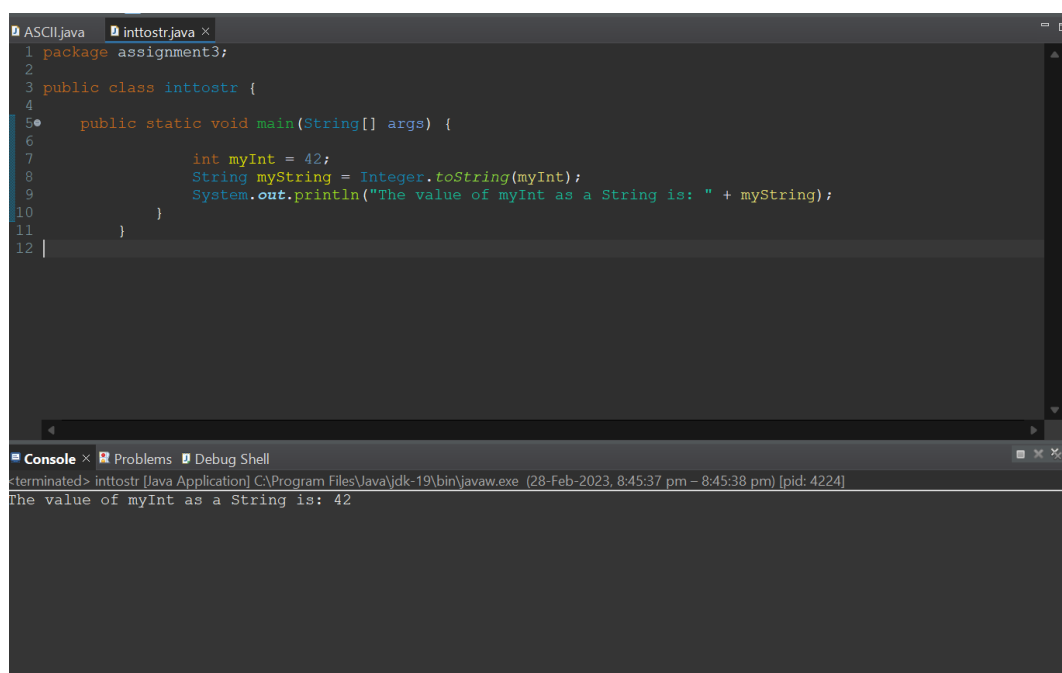


```
ASCII.java x
1 package assignment3;
2
3 public class ASCII {
4
5     public static void main(String[] args) {
6
7         char myChar = 'S';
8         int asciiCode = (int) myChar;
9         System.out.println("The ASCII code of " + myChar + " is " + asciiCode);
10    }
11
12 }
```

```
Console x Problems Debug Shell
<terminated> ASCII (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (28-Feb-2023, 8:43:51 pm - 8:43:52 pm) [pid: 17312]
The ASCII code of S is 83
```

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/6pkMA0>

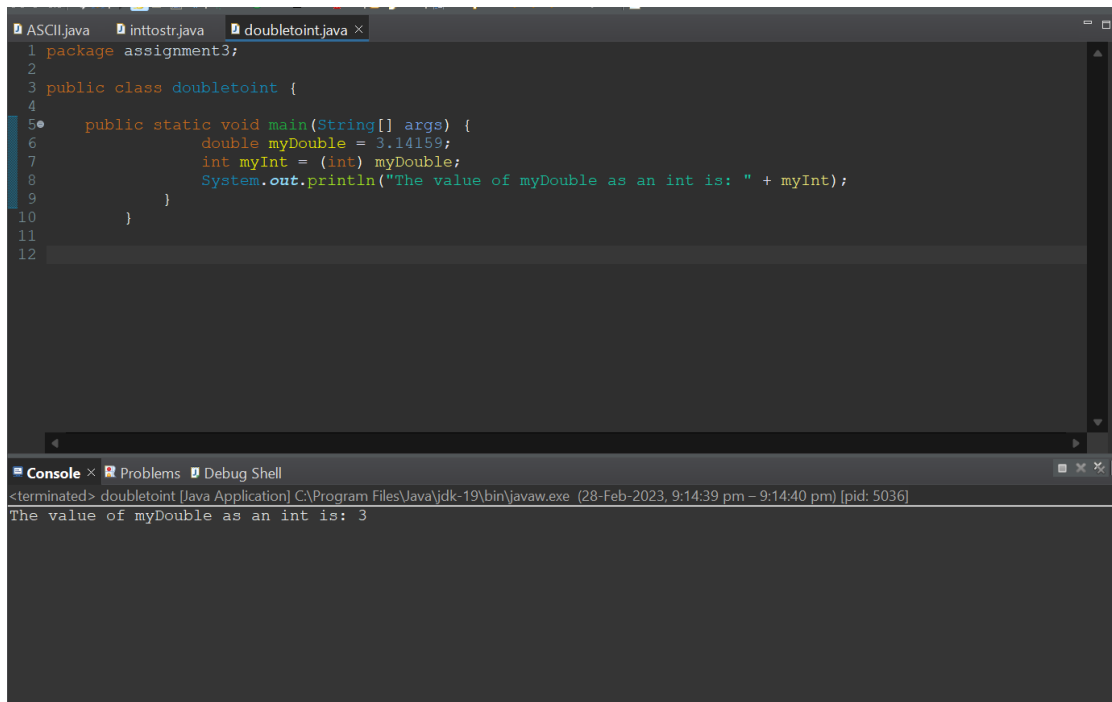


```
ASCII.java x inttostr.java x
1 package assignment3;
2
3 public class inttostr {
4
5     public static void main(String[] args) {
6
7         int myInt = 42;
8         String myString = Integer.toString(myInt);
9         System.out.println("The value of myInt as a String is: " + myString);
10    }
11
12 }
```

```
Console x Problems Debug Shell
<terminated> inttostr [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (28-Feb-2023, 8:45:37 pm - 8:45:38 pm) [pid: 4224]
The value of myInt 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/OdEOJN>



The screenshot shows an IDE with a Java file named `doubletoint.java`. The code defines a package `assignment3`, a class `doubletoint`, and a `main` method. In the `main` method, a `double` variable `myDouble` is assigned the value `3.14159`, which is then cast to an `int` variable `myInt`. The program prints the value of `myInt`. The console output shows the result of the cast, which is `3`.

```
1 package assignment3;
2
3 public class doubletoint {
4
5     public static void main(String[] args) {
6         double myDouble = 3.14159;
7         int myInt = (int) myDouble;
8         System.out.println("The value of myDouble as an int is: " + myInt);
9     }
10 }
11
12
```

Console × Problems × Debug Shell  
<terminated> doubletoint [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (28-Feb-2023, 9:14:39 pm – 9:14:40 pm) [pid: 5036]  
The value of myDouble as an int is: 3