

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 a Java development environment with two tabs open: 'declaretwovar.java' and 'Console'. The code in 'declaretwovar.java' 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 }
```

The 'Console' tab shows the output of running the program:

```
<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 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 booll = true; // declare and assign value to first variable
8         boolean bool2 = false; // declare and assign value to second variable
9         boolean result = booll && bool2; // apply the logical AND operator to the two variables and store the result in result
10        System.out.println("The logical AND of " + booll + " and " + bool2 + " is " + result); // print the result
11    }
12
13 }
```

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>

A screenshot of a Java IDE interface. The top tab bar shows three files: logicalAND.java, typestring.java (which is the active file), and another unnamed file. The code in typestring.java is:

```
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 |
```

The bottom panel is the Console, showing the output of the program:

```
<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>

A screenshot of a Java IDE interface. The top tab bar shows three files: logicalAND.java, typestring.java, and toupper.java (which is the active file). The code in toupper.java is:

```
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 |
```

The bottom panel is the Console, showing the output of the program:

```
<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>

The screenshot shows a Java code editor with a dark theme. A file named `substring.java` is open. The code defines a class `substring` with a `main` method. Inside the `main` method, a `String` variable `myString` is assigned the value "Vishwas C P". Then, a `substring` method is called on `myString` with parameters `0, 5`, and the result is printed to the console using `System.out.println`. The code editor has a status bar at the bottom showing the file path and some metadata.

```
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 }
```

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/X8E0Nz>

The screenshot shows a Java code editor with a dark theme. A file named `indexof.java` is open. The code defines a class `indexof` with a `main` method. Inside the `main` method, a `String` variable `myString` is assigned the value "Vishwas C P". Then, the `indexOf` method is called on `myString` with the character 'C' as the argument, and the resulting index is printed to the console using `System.out.println`. The code editor has a status bar at the bottom showing the file path and some metadata.

```
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 }
```

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>

The screenshot shows a Java development environment with two tabs open: "ASCII.java" and "inttostr.java". The "ASCII.java" tab contains the following code:

```
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
```

The "Console" tab shows the output of the program:

```
<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>

The screenshot shows a Java development environment with two tabs open: "ASCII.java" and "inttostr.java". The "inttostr.java" tab contains the following code:

```
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
```

The "Console" tab shows the output of the program:

```
<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 a Java development environment with two tabs open: "doubletoint.java" and "doubletoint.java". The code in "doubletoint.java" is as follows:

```
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
```

The "Console" tab at the bottom shows the output of the program:

```
<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
```