JAVA - ICE-2

Tags: #java #object_oriented_programming #mohammad_shamas #06-16-23

> ℹ️ **Info**
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Screenshots:

Code:

```java
/*
 * Program Name: ICE2.java
 * Program Author: Shubham Mohanty
 * Program Date: June 16th, 2023
 * Program Description: This program demonstrates the use of functions, this program in particular contains 3
 functions 'drawStars', 'printStatement', and the overloaded versions of 'multiplyNumbers'.
 */

// 4 functions are needed to be created...

public class ICE2 {
    // 1st function
    public static void drawStars(int n) {
        for (int i = 0; i < n; i++) {
            System.out.print("*");
        }
    }
    // 2nd function
    public static void printStatement(String message) {
        System.out.println(message);
    }
    // 3rd function
    public static int multiplyNumbers(int a, int b) {
        int value = a * b;
        return value;
    }
    // 4th function (overloaded version of the 3rd one)
    public static double multiplyNumbers(double a, double b) {
        double value = a * b;
        return value;
    }
```

```java
        Run | Debug
        public static void main(String[] args) {
            // Calling the 1st function:
            drawStars(n:15);

            // print a new line:
            System.out.println(x:"");

            // Calling the 2nd function:
            printStatement(message:"ICE2: Function Practice Start");

            // Calling the (multiplyNumbers) 3rd function (with the return type of int)
            int productInteger = multiplyNumbers(a:3, b:5);

            // Printing the result of the 3rd function:
            System.out.println("The value of 3 x 5 = " + productInteger);

            // Calling the (multiplyNumbers) 4rd function (with the return type of double)
            double productDecimal = multiplyNumbers(a:3.141, b:2.718);

            // Printing out the result of the 4th function:
            System.out.println("The value of 3.141 x 2.718 = " + productDecimal);

            // Calling the printStatement function again:
            printStatement(message:"ICE2: Function Practice End");

            // Calling the drawStars to mark the end of the program:
            drawStars(n:15);
        }
}
```

Output:

```java
        Run | Debug
        public static void main(String[] args) {
            // Calling the 1st function:
            drawStars(n:15);

            // print a new line:
            System.out.println(x:"");

            // Calling the 2nd function:
            printStatement(message:"ICE2: Function Practice Start");

            // Calling the (multiplyNumbers) 3rd function (with the return type of int)
            int productInteger = multiplyNumbers(a:3, b:5);

            // Printing the result of the 3rd function:
```

```
PS C:\Users\mohan\Desktop\Proper_java_classes_sem_02\Java> cd "c:\Users\mohan\Desktop\Proper_java_classes_sem_02\Java
\week_07\" ; if ($?) { javac ICE2.java } ; if ($?) { java ICE2 }
***************
ICE2: Function Practice Start
The value of 3 x 5 = 15
The value of 3.141 x 2.718 = 8.537238
ICE2: Function Practice End
***************
PS C:\Users\mohan\Desktop\Proper_java_classes_sem_02\Java\week_07>
```