

## Sample Documentation

(Java Programming for Beginners - OnLine)

For showing you what is a good documentation in a code, I am showing your homework #6. This is the homework 6 you will get later. Here you are only observing how to write documentation (descriptive comments of your code).

This the requirement of Homework #6:

**Homework 6:** Write a static method called `getUserChoice()`, which returns an integer as menu choice based on the requirement in the problem 5.1 (Homework #5). You can re-use the code you wrote from HW#5.1 or from the model answer provided. Modify the main method and all your new method `getUserChoice` to get the choice from user. Print the choice given by the user in the main method.

```
Welcome to sorting program
```

1. Title
2. Rank
3. Date
4. Stars
5. Like

```
Enter your choice between 1 and 5 only: a;sfasf saf asf a
You have entered an invalid choice. Try again.
Enter your choice between 1 and 5 only: 9
You have not entered a number between 1 and 5. Try again.
Enter your choice between 1 and 5 only: 4
```

```
You entered valid choice 4
Thank you for giving your choice
```

**6.2** Write a static method called `getTwoFloats()`, which returns an array of two floats based on the problem 5.2 (Homework #5). You can re-use the code you wrote from HW#5.2 or from the model answer provided. Modify the main method to call `getTwoFloats` and print the two floats in the main method.

### Example user interface:

```
Welcome to bonus get two floats program

Enter two floats separated by a space: a;f asfas fasf a
You have entered an invalid input. Try again.
Enter two floats separated by a space: 5.6 a;fa sf asf as
You have entered an invalid input. Try again.
Enter two floats separated by a space: 12.45 34.56
You entered 12.45 and 34.56 successfully!

Press enter key to continue ...
```

**6.3** Now, create a new public class. Add both the methods from 6.1 and 6.2 into this file. Write the main method which calls `getUserChoice` and then also calls `getTwoFloats` one after another.

Note: Create the scanner and float array in main method, and pass scanner to `getUserChoice`, and pass same scanner and the array to `getTwoFloats`. After the `getTwoFloats` is called the array will have two floats and can be used to display the data like this:

```
Welcome to sorting program

1. Title
2. Rank
3. Date
4. Stars
5. Like

Enter your choice between 1 and 5 only: ;f af afa
You have entered an invalid choice. Try again.
Enter your choice between 1 and 5 only: 4

You entered valid choice 4
Thank you for giving your choice

Welcome to bonus get two floats program

Enter two floats separated by a space: as fas fas fa
You have entered an invalid input. Try again.
Enter two floats separated by a space: 12 2
You entered 12.00 and 2.00 successfully!

Press enter key to continue ...
```

**What to submit?** Just submit the solution 6.3

**Solution:** (Note that, this is not the real solution, I am just showing some parts of documentation)

Solution for 6.1 and 6.2 is combined with 6.3 in one file

```
import java.util.Scanner;
import java.util.InputMismatchException;

/**
 * This is solution for Homework#6
 *
 * All solutions have been put in one place to minimize
 * number of classes
 *
 * The solution combines what was done in homework #6.1 in separate class
 * In this solution the solutions of homework #6.2 is combined in one class
 * and tested from one main method.
 *
 * @author bineetsharma
 * @version 1.0
 * @since 03-1-20NN
 *
 * @version 1.1
 * @since 12-21-20NN
 * Wrote comments, formatted the code and eliminated need for continue statement
 *
 */

public class HW_6_Solution_Java_OnLine{

    //Homework #6.1
    /**
     * @param readInput
     *         : Scanner passed from main method
     *
     * A loop is used to continue asking for valid choice. The
     * nextInt method of scanner is used which throws
     * InputMismatchException if the value is not able to extracted.
     * When the wrong value is entered the input is still in input
     *
     * <<write more comments if needed>>
     *
     */

    public static int getUserChoice(Scanner readInput){
        <<more code >>
        do { // Loop until we have correct input
            <<more code>>
        } while (true);
        //if you are here you got the correct choice
        return inputInt;
    } // end of getUserChoice class

    //Homework #6.2
    /**
     * @param myFloats
     *         : assigns two floats from user into the array elements
     * @param readInput
     *         : Scanner passed from main method
     *
     * A loop is used to continue asking for valid values. The
     * nextFloat method of scanner is used which throws
     * InputMismatchException if the value is not able to extracted.'
     *
     * <<more comments if needed>>
     *
     */
}
```

```

public static << your return>> getTwoFloats(<<your parameter>>){
    << our code goes here>>
} //end of getTwoFloats

/**
 * @param args
 *      : not used in this program
 * For Homework #6.1 all important
 * codes for this program is written in getUserChoice method. The
 * <<more comment>>
 *
 * For Homework #6.2 all important
 * codes for this program is written in
 * getTwoFloats method. The main method creates the Scanner
 * <<more comment>>
 *
 */

public static void main(String[] args) {

    // Declare Scanner Here and passed where it is needed

    <<your code goes here>>
} //end of main
} //end of class HW_6_Solution

```