

# MIST352 Homework #1 (100 points)

1. Under the Homeworks folder of your source code repository, create a new Java project named HW1.
  - a. Inside the src folder of HW1, create a new java class name HW1 (leave all options as is). **[10 points]**
  - b. Delete ALL codes inside the java class you have just created and replace it with the code given in Figure 1.
  - c. Identify all errors in the code given in Figure 1. and make the necessary changes to fix all syntax and logical errors in the code. **[25 points]**
  - d. Ensure that your program runs without any issues, and it generates the desired output as shown in Figure 2. **[5 points]**
  - e. Provide a box of comments on top the class and include each of the next lines as separate comments. Provide the info between the []: **[10 points]**
    - i. Author: [Your first and last name]
    - ii. Class: MIST352-Spring24
    - iii. HW #1.
    - iv. [provide your description of what this program does.]
  - f. For each line of code, provide one comment above each line, and briefly explain what the error was in that line. For example, the first line in this code should have `HW1` instead of `HW11.`, and should have the comment: `// Name of the class should reflect the class name` **[10 points]**
2. Inside the Homework folder, create a new Java project named HW1B by redesigning the program in HW1 so all necessary data elements are entered from the user. Before you accept each of those variables, your program should display a message asking user for the data. For example, your program should display `"Enter value for numberAsString"` before assigning a value to the variable `numberAsString`. **[20 points]**
3. Commit and push all changes to GitHub. Provide "Submitted HW#1" as your commit message. **[10 points]**
4. Navigate to eCampus and make a submission by navigating to the HW1 submission page and simply write "submitted HW1 on GitHub" as your submission. **[10 points]**

```

public class ErrorProneProgram {
    public static void main(String[] args) {
        // Declaring a string variable
        int numberAsString = "1234";

        // Declaring an integer variable
        String number = 5678;

        // Declaring a boolean variable
        boolean flag = "true"; // This should be a boolean value

        // Declaring a double variable
        double decimalNumber = 3.14f;

        // Printing a greeting message with new line
        System.out.println(Hello World\n);

        // Printing tabbed text
        System.out.println(\tTabbed text);

        // Printing a variable
        System.out.println(undeclaredVariable);

        // Concatenating string with integer using escape sequences
        System.out.println("Value of number:\t + number + "\nValue of
numberAsString:\t" + numberAsString);

        // Declaring a constant
        double PI = 3.14159;

        // Printing a complex message
        System.out.println("The value of flag is " + flag + ", and the decimal number
is " + decimalNumber);

        // Printing a test message
        system.out.println("This is a test.");
    }
}

```

Figure 1: Code for HW1

```

Hello World

    Tabbed text
Value of number:      5678
Value of numberAsString: 1234
The value of flag is true, and the decimal number is 3.14

```

Figure 2: HW1 output