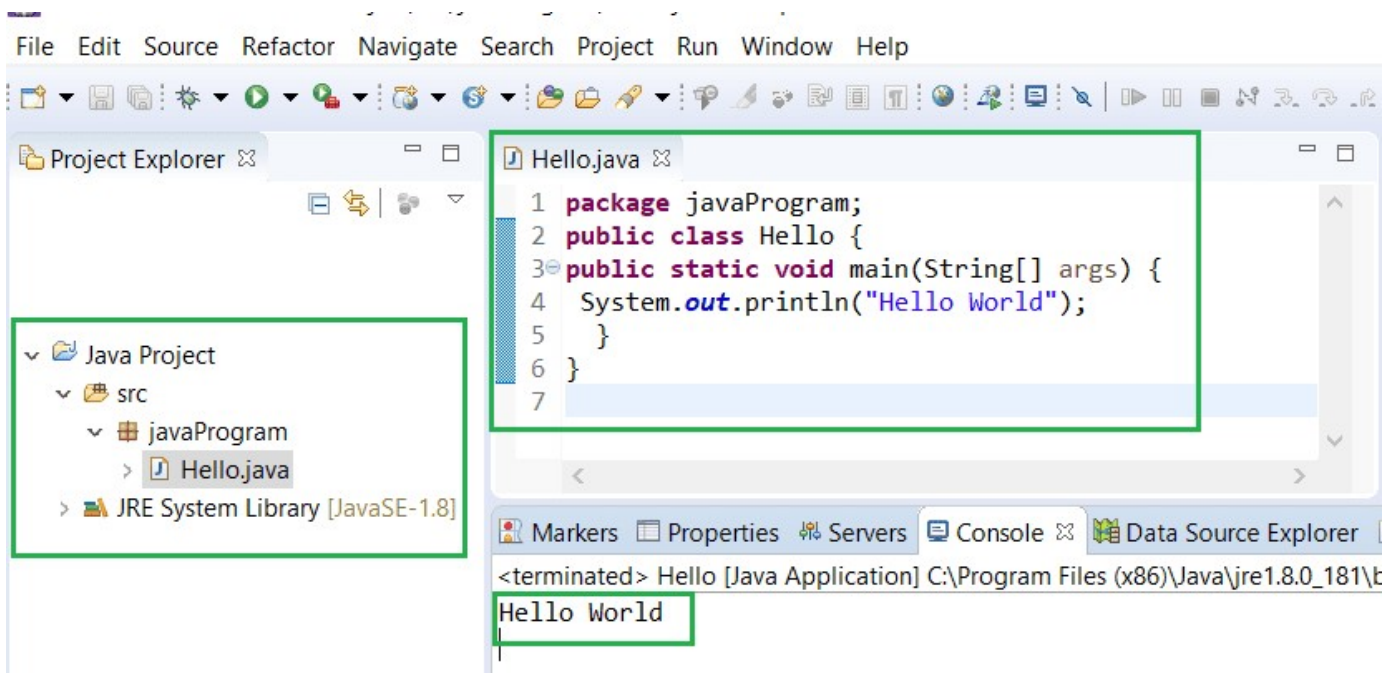


# Java Lab File

## Lab 1:-

**Program 1:** Write Simple Java Program to print “Hello World!” string using Eclipse Platform. Explain working of each and every line of program. Give Brief introduction of Eclipse Platform.

### Code:-



### Explanation of each & every line of code:-

- **public class HelloWorld** : This line declares a class named HelloWorld. In Java, every program must have at least one class, and the class name must match the filename (without the .java extension). The public keyword indicates that the class is accessible from other classes.
- **public static void main(String[] args)** : This line declares the main method, which is the entry point of the Java program. This method is where the program starts executing. It takes an array of strings args as input, which allows the program to accept command-line arguments. The public and static keywords are access modifiers that allow the

method to be called from outside the class without creating an instance of the class. The void keyword indicates that the method does not return any value.

- **System.out.println("Hello World!");** : This line prints the string "Hello World!" to the console. The System.out is an object of type PrintStream that represents the standard output stream. The println method is used to print the specified string followed by a newline character to the console.

### **Eclipse Platform:**

- Integrated Development Environment (IDE) for Java.
- Offers features like code editing, debugging, and project management.
- Supports other languages via plugins.
- Highly customizable and extensible.
- Popular among Java developers for its robust tools and user-friendly interface.

