

**Object Oriented Programming Using - JAVA**

**PRACTICAL - 1**

**Aim:** Install JDK, write a simple “Hello World” or similar java program, compilation, debugging, executing using java compiler and interpreter.

**Theory:** In this practical, we use the Java Development Kit (JDK) to write and run a basic Java program. The JDK includes tools like the **javac** compiler (to compile .java files into bytecode) and the java interpreter (to execute .class files).

We first write a simple Java program like "Hello World" using a text editor or IDE. After saving it with a .java extension, we compile it using:

**javac HelloWorld.java**

If there are any syntax errors, we debug and fix them. Once compiled successfully, the program is executed with:

**java HelloWorld**

This displays the output on the console. This process helps understand Java's basic structure, syntax, and how the compiler-interpreter duo works.

**Code:**

```
public class main
{
    public static void main(String[] args)
    {
        System.out.println("Hello World");
    }
}
```

**Output:**



Hello World

**Conclusion:** This practical helped us understand the basic structure of a Java program and the steps involved in compiling and executing it. By using the JDK, we learned how Java code is written, debugged, and run, forming the foundation for building more advanced applications.