# REPORT WRITING

### **Insights Gained**

Understanding Bytecode

Java programs are compiled into bytecode, which is executed by the Java Virtual Machine (JVM).

Legal and Ethical Considerations

It's important to note that reverse engineering should be done within legal and ethical boundaries

Challenges

Obfuscation techniques can be used to make reverse engineering more difficult. These techniques modify the bytecode to make it harder to interpret

## **Tools and Techniques**

**Decompilers**: These tools convert Java bytecode back into readable Java source code

**Disassemblers:** Tools like **Ghidra** can be used to analyze and reverse engineer Java applications

## **Code Snippets**

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

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```
}
}
```

#### **Decompiled Java Class**

After compiling the above code to a .class file, we can use CFR to decompile it back to readable Java code.

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

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