



# Java Full Course Syllabus (Basic to Advanced)

## 1. Java Basics Notes

Java is an object-oriented, platform-independent programming language. It uses JVM to run bytecode.

Data Types: int, float, double, char, boolean

### Example Program: Hello World

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

## 2. OOP Concepts

OOP includes Class, Object, Inheritance, Polymorphism, Encapsulation, Abstraction.

### Example: Class and Object

```
class Student { int id; String name; void display(){ System.out.println(id + name); } }
```

## 3. Collections Notes

Collections framework provides data structures like ArrayList, HashMap, HashSet.

### Example: ArrayList

```
ArrayList list = new ArrayList<>(); list.add('Java');
```

## 4. Exception Handling

Exception handling is done using try, catch, finally.

### Example

```
try { int a = 10/0; } catch(Exception e){ System.out.println(e); }
```

## 5. Important Interview Questions

1. What is JVM? 2. Difference between JDK, JRE? 3. What is OOP? 4. What is Polymorphism? 5. What is Exception Handling?