**Week #1**

# **Recourses for Learning and Practicing Java Programming**

## Official Documentation and Websites

The Java tutorials:  
[The Java™ Tutorials (oracle.com)](https://docs.oracle.com/javase/tutorial/)   
Offers in depth tutorials, API reference and guides on Java SE.  
  
[OpenJDK](https://openjdk.org/):  
Open source implementation of the java platform includes builds sources code and updates.  
  
Java API specification:  
[The Java™ Tutorials (oracle.com)](https://docs.oracle.com/javase/tutorial/)  
Provides detailed information on Java packages, classes and methods .

## Books and E-books

**Head first Java** (by Kathy Sierra and Bert Bates):  
An interactive and beginner friendly book with lots of visuals. Great for conceptual understanding.  
  
**Effective Java** (by Joshua Bloch):  
Provides practical, detailed advice, practices for writing clear, robust and reusable Java code.

## Online Learning Platforms

Coursera: Offers Java courses from institutions like University of California etc. It includes quizzes, videos and peer reviewed assignments.  
  
Udemy: Both paid and free Java courses which offers a marketplace for skill-based courses taught by industry experts.  
  
CodeAcademy: Interactive Java course that offers guided hands-on learning.

## Coding Practice Websites

HackerRank: Java specific practice tracks from basics to advanced problem solving,  
  
LeetCode: Excellent for Java based algorithms and data structures problems.  
  
CodeForces: Competitive programming problems many of which can be solved in Java.

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## Community and Discussion Forums

Stack Overflow: Global programming Q&A community. Most java errors and concepts already discussed.   
  
Reddit: **r/Java** and **r/Java help** is java focused subreddit for news help and discussions.  
  
GitHub: explore open-source java projects and community contributions.

## Preferred Resources

While learning and practicing Java I prefer HackerRank and Reddit:

HackerRank for practicing different codes based on various difficulties which acts as a perfect daily exercise for memorizing the basics.

And Reddit for guidance in solving simple or complex coding errors while also learning how to use basic shortcuts and tools which make coding way easier.