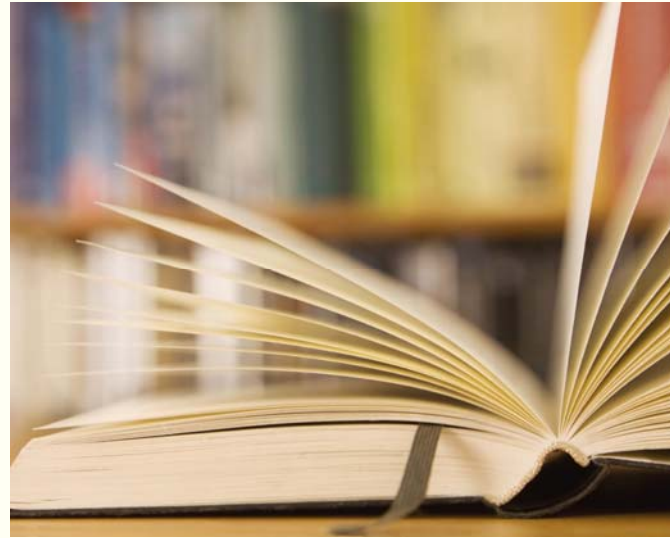


# COURSE INTRODUCTION

Objective Oriented Programming



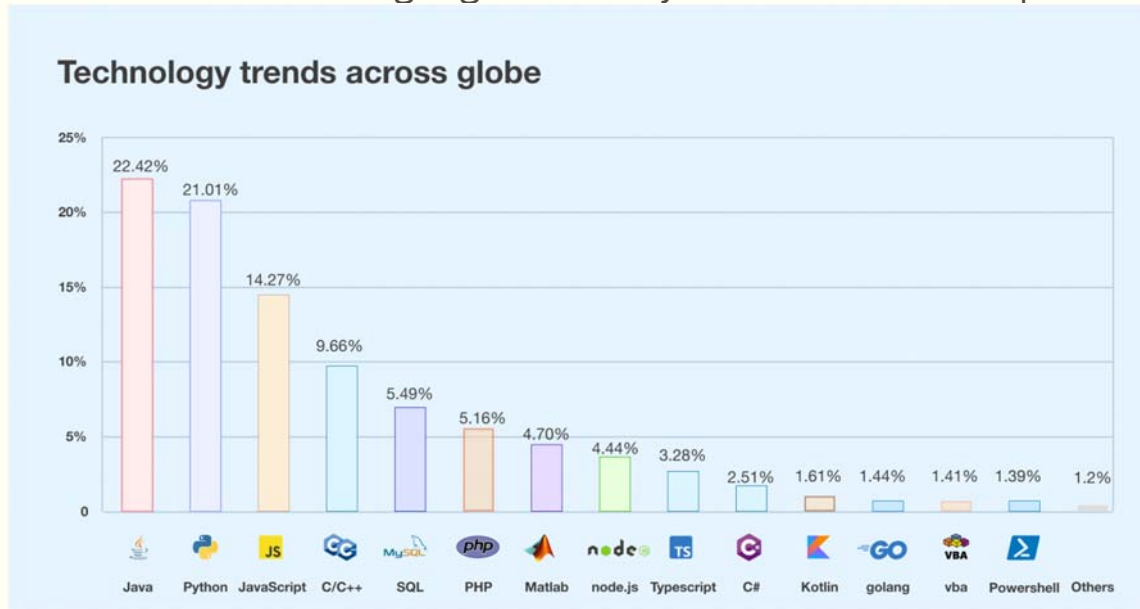
## JIU3209 Object Oriented Programming

- Instructor: Jihoon Lee, TA: Eujin Ahn, and Minjoo Park
  
- Lectures:
  - Lecture: Mon 10:00 AM – 12:00 (M302)
  - Practice: Tue 10:00 AM – 12:00 (M302)
  
- Google Classroom:
  - <https://classroom.google.com/c/NTA5MjlxMzYxMzly?cjc=cazc54v>

# Course Introduction

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- We will learn JAVA languages and Object Oriented Concept



## What can we do if we learn JAVA?

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- Web Application
  - Spring Framework



- App Application
  - Android



- Desktop App
  - JavaFX
  - Swing



- Web automation, machine learning, data analysis, IoT, and game development, ...

## Course Goals

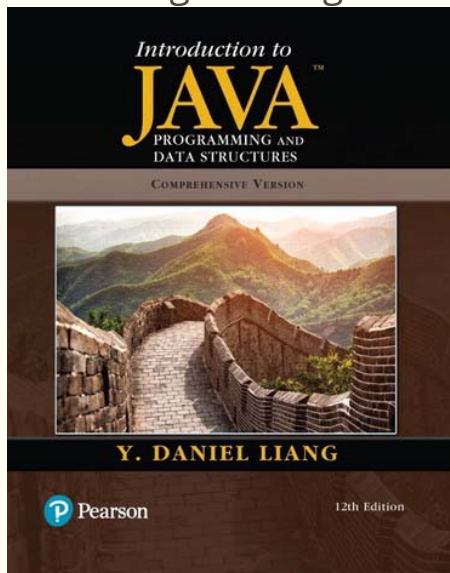
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- Understand fundamentals of programming with JAVA
- Understand Object Oriented Programming concepts.
- Practice logical thinking and problem-solving ability

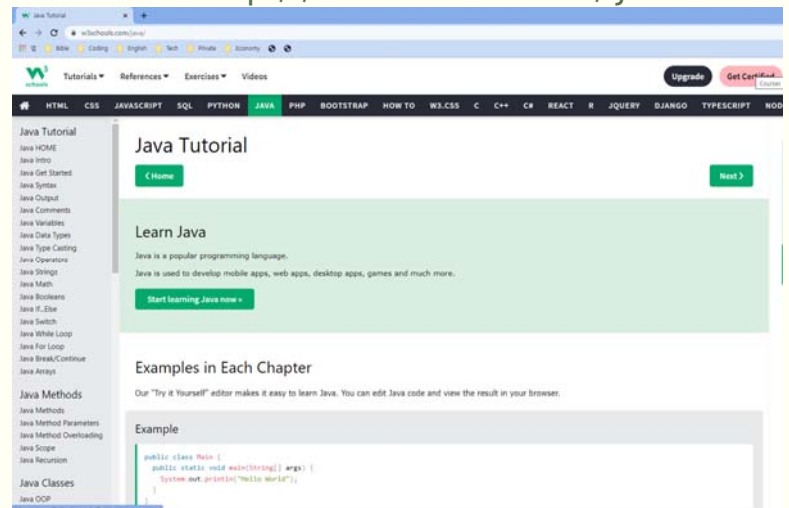
## Text Book & Reference Web Site

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- Text Book: Introduction to JAVA Programming and Data



- Reference Web Site: w3schools Java Tutorial (<http://w3schools.com/java>)



## Grade

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- Homework (20%)
- Program Assignments (20%)
- QUIZ (20%)
  - 4<sup>th</sup> Week – QUIZ #1
  - 12<sup>th</sup> Week – QUIZ #2
- Midterm Exam (20%)
- Final Exam (20%)

## Late, Absence, ITLAB Policy

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- Every homework and assignment has a due date
  - Late submissions have a 20% penalty
  - If you do not submit at least 30% of your homework and assignment, it will result in an E grade even if you pass all the quizzes and exams.
- Exceptions only for excused absences
  - Medical emergencies, and family emergencies, with documentation
- ITLAB – M302
  - No drinks and no food
  - No game
  - Follow ITLAB regulations

## Academic Integrity

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- All homework, assignments, labs, quizzes, and exams are done solo.
- You do your own work!
  - You may get help from course instructors and TAs
  - You may discuss concepts with other students, but:
    - **Never share** homework, or code with another student.
    - **Never copy** homework, or code from another student or the internet
- Such violations of cheating or plagiarism will result in **zero grades** on the assignment and reporting to the university.
- Further infractions will result in an **E grade** given in the course

## Conclusion

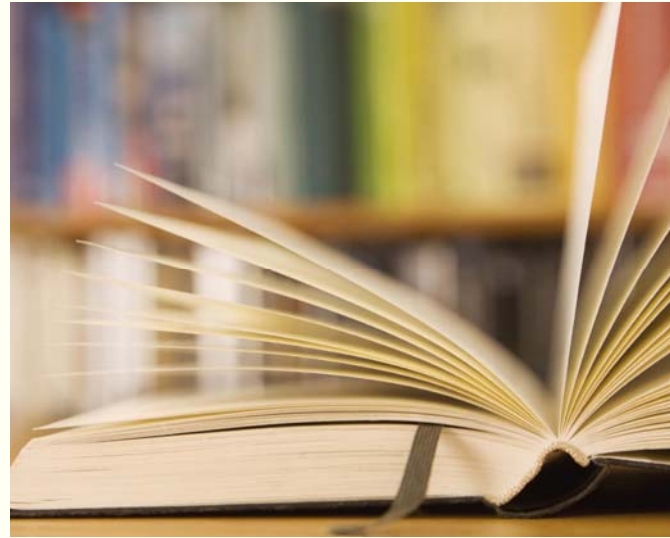
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- JAVA is not terribly difficult,
- but there's a lot you need to know.
- You have to study a lot. (Required Study Time: 9 hours/week)



# INSTALL JAVA

Object Oriented Programming



## Install JAVA

- JDK: Java Development Kit
- Adoptium:
  - <https://adoptium.net/>
  - Other platforms and versions
  - Select OS: Windows / Version: 8

**ADOPTIUM** Home Marketplace Documentation FAQ Projects™ Further Information™

### Prebuilt OpenJDK Binaries for Free!

Java™ is the world's leading programming language and Working Group promotes and supports high-quality, fit associated technology for use across the Java ecosystem the OpenJDK distribution from Adoptium.

Download Temurin™ for Windows

Latest LTS Release  
jdk-17.0.2+8

Other platforms and versions  
Release Archive

### Eclipse Temurin™ Latest Releases

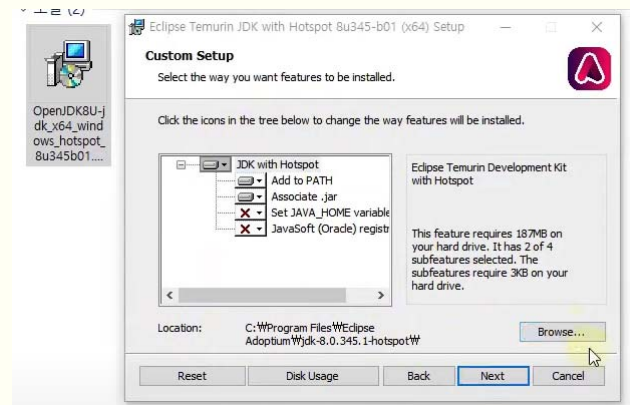
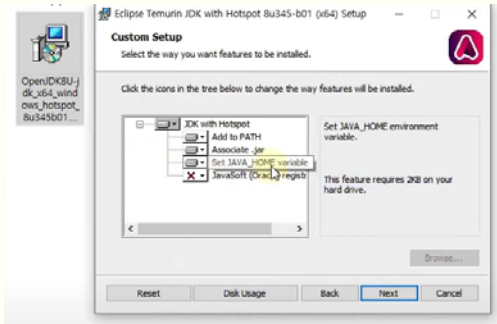
Eclipse Temurin is the open source Java SE build based upon OpenJDK. Temurin is available for a wide range of platforms and Java SE versions. The latest releases recommended for use in production are listed below, and are regularly updated and supported by the Adoptium community. Migration help, container images and package installation guides are available in the documentation section. You can read the Release Notes for each version thanks to our friends at Foojay.io!

Use the drop-down boxes below to filter the list of current releases.

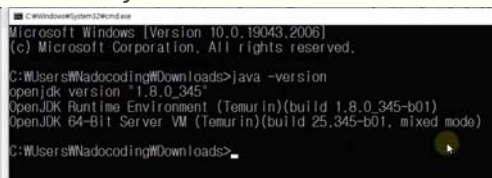
Operating System	Architecture	Package Type	Version
Windows	Any	JDK	8
jdk-17.0.2+8 Temurin November 4, 2022	Windows	x64	JDK - 89 MB Checksum JDK - 104 MB Checksum
		x64	JDK - 89 MB Checksum JDK - 104 MB Checksum
	Windows	x32	JDK - 90 MB Checksum JDK - 105 MB Checksum
		x32	JDK - 90 MB Checksum JDK - 105 MB Checksum

# Install JAVA

- Location: Browse => Eclipse Adoptium => JAVA
- Set JAVA\_Home variable => Installing

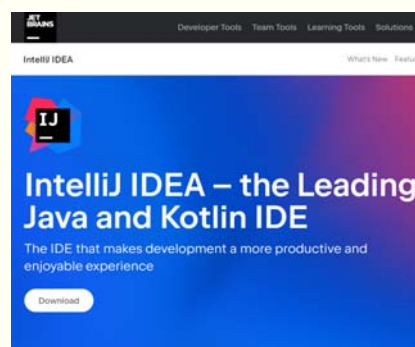
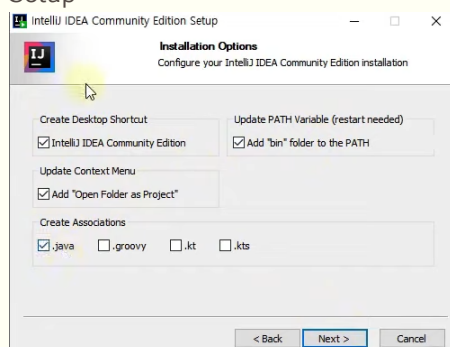


- CMD => java -version



# Install IDE

- IDE: Integrated Development Environment
- IntelliJ:
  - <https://www.jetbrains.com/idea/>
  - Download => Community Edition
  - Setup



# Run IntelliJ

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- New Project

