

The logo for Oracle Academy. The word "ORACLE" is in a bold, orange, sans-serif font. Below it, the word "Academy" is in a smaller, dark gray, sans-serif font. The entire logo is centered on a light gray background, which is framed by dark gray horizontal bars at the top and bottom.

ORACLE

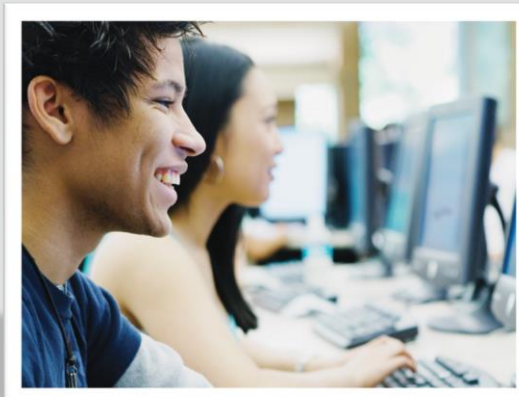
Academy

Java Fundamentals

1-1

Introduction

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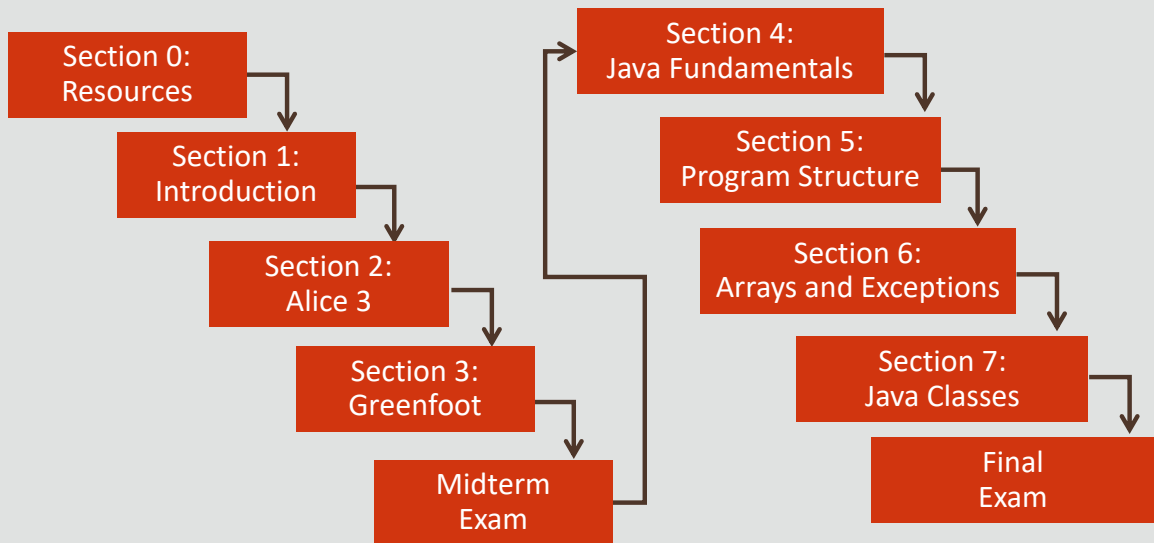
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Objectives

- This lesson covers the following objectives:
 - Examine the course sections
 - State the goal of the course
 - Become familiar with Oracle Academy Member Hub
 - Explain the course map
 - Describe the software used in this course
 - Recognize the IDEs used in this course



Java Fundamentals Course Sections



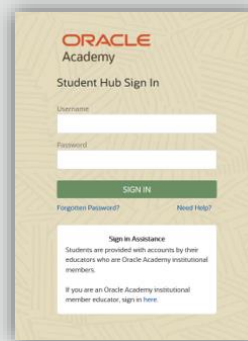
Course Goal

- You will learn the basic elements of computer programming and the Java programming language to start writing your own Java programs
- By the end of this course, you should be able to:
 - Create animations and games
 - Demonstrate your knowledge of Java technology and the Java programming language
 - Use the Java programming language to create applications
 - Integrate decision, looping, and other intermediate code to create applications

What is this course all about??

Oracle Academy Member Hub

- Oracle Academy Member Hub is a learning management system used for this course
- Your instructor will provide you with an Oracle Academy Member Hub username and password
- You will use Oracle Academy Member Hub to access:
 - Curriculum
 - Quizzes
 - Exams



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This is where all of the lessons, practices, projects, quizzes and exams are located.

Course Materials in Oracle Academy Member Hub

- Course Materials include:
 - Student Guides
 - PDF slides with additional notes for each lesson
 - Practice Guides
 - PDF document with practice activities
 - Project Guides*
 - PDF document with project activities
 - Quizzes
 - Online quiz for each lesson
 - Exams
 - Online midterm and final exam for each course
 - Additional Resources
 - Some lessons include additional materials as needed

*Projects are not provided for every lesson

After you click the "play" button for the course, you will see the course materials!

Course Map

- The course map is located in Section 0 of the course
- It is a lesson planning tool used to plan how you will complete lessons in the amount of time you have available over a unit or semester
- Lessons are designed in a modular way
- The course map provides a recommended duration of each lesson
- The map is based upon 45-minute class duration, but can be adapted to shorter or longer class timings

Check out the course map in Section 0!

Software

- In this course you will use the following software:
 - Alice 3: A 3D environment for creating animations
 - Greenfoot: An interactive 2D environment for creating games
 - A Java Integrated Development Environment: For developing Java applications
 - Internet Browsers: Internet Explorer or Mozilla Firefox
- Be sure to identify and remember the folder configuration (where files are saved) for your classroom computer lab



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Alice, Greenfoot, and your Java IDE will point you to default folders where you can save files. Feel free to create your own folders based on the section and lesson numbers in the course. Preferences for folder configuration may depend upon the lab setup at your school.

Integrated Development Environment

- As a developer, you will use Alice, Greenfoot, and a Java Integrated Development Environment (IDE), to create Java applications

An Integrated Development Environment, referred to as simply “IDE”, is a software programming tool used by computer programmers to develop software applications. An IDE includes tools for writing, editing, compiling, deploying and debugging programs.



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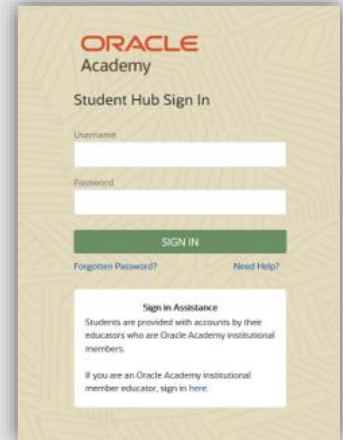
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Computer Science uses many acronyms (abbreviations for terms that make it easier to type and speak about terminology).

IDE (Integrated Development Environment) is one of many that you will see.

Terminology

- Key terms used in this lesson included:
 - Oracle Academy Member Hub
 - IDE



The screenshot shows the Oracle Academy Student Hub Sign In page. At the top, the Oracle Academy logo is displayed. Below it, the text "Student Hub Sign In" is shown. There are two input fields for "Username" and "Password". A green "SIGN IN" button is located below the password field. To the left of the button are links for "Forgotten Password?" and "Need Help?". Below the sign-in section, there is a "Sign In Assistance" section with text explaining that students are provided with accounts by their educators who are Oracle Academy institutional members. At the bottom, there is a link for institutional member educators to sign in.



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Summary

- In this lesson, you should have learned how to:
 - State the goal of the course
 - Explain the course map
 - Describe the teaching format used in class
 - Become familiar with Oracle Academy Member Hub
 - Recognize the IDEs used in this course



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