

ICS3U Homework: Gathering Java Resources

Purpose:

In this homework, you will search for web sites that are your Java support sites throughout the semester. Luckily, Java is a language with many tutorials & example code available on the Internet. Utilize these sites productively to help you problem solve rather than to give you answers.

Task:

Search the Internet for information on different Java topics listed below. The number in the bracket specifies the minimal number of web sites / pages you I need to find the topic. For each of the findings, include its URL and a brief comment to indicate its usefulness for your future use. Organize your findings in a well-formatted word document, using a table.

- Java IDE (2 excluding JGrasp)
- Java tutorial for beginners (2)
- Java syntax (1)
- Java lesson on standard input / output (2)
- Java lesson on variables, data types (2)
- Java lesson on selections (if & case structure) (2)
- Java lesson on repetitions (2)
- Java lesson on file input / output (2)
- Java lesson on arrays (2)
- Java 8 API Specification (1)
- Java GUI (1)

Example Table Entry

Topic	URL	Comment
IntelliJ IDEA	https://www.jetbrains.com/idea/	This is a powerful and versatile IDE that supports multiple languages and frameworks such as Java, Kotlin, and more. It offers features such as code assistance, deep code understanding, collaboration and remote working, AI assistant, and more.

Eclipse	https://www.eclipse.org/downloads/	This is a popular open source IDE, supporting Java, C/C++ and other languages and platforms. It provides features such as a code editor, debugger, build automation tool, plug-in system, and more.
Java beginners tutorial	https://www.udemy.com/course/java-tutorial/	This is a completely free Java tutorial, can learn the Java programming language and helps you to start from scratch. It includes video explanations, code examples, practice questions, and projects.
Java tutorial	https://www.w3schools.com/java/	This is a simple Java tutorial, and can help you to learn the basic concept of Java and grammar. It includes an online editor, code examples, quizzes, and reference manuals.
Java syntax	https://www.w3schools.com/java/java_syntax.asp	This is a simple Java syntax tutorial, and can help you to learn the basic rules and structure of Java. It includes code examples, output results, and quizzes.
Java basic input and output	https://www.programiz.com/java-programming/basic-input-output	This is a simple Java input and output of the tutorial. It helps you learn how to use the System and Scanner classes to read and display data. It includes code examples, output results, and practice questions. Basic I/O Java tutorial
Basic I/O Java tutorial	https://docs.oracle.com/javase/tutorial/essential/io/	This is a detailed tutorial Java I/O, can help you learn how to use the Java platform for basic I/O operations. It includes topics such as I/O streams, serialization, file I/O, and character sets. It includes code examples, diagrams, and summaries.
Java variables and data	https://www.udemy.com/tutori	This is a free video tutorial to help

types to introduce	al/master-practical-java-development/lecture-3-variables-and-data-types/	you learn the concepts and usage of variables and data types in Java. It includes declaration, initialization, scope, and naming conventions for variables, as well as classification, scope, and conversion of data types.
Java data type	https://www.w3schools.com/java/java_data_types.asp	This tutorial is a simple Java data type, and can help you learn the primitive data types in the Java and reference data types. It includes data type definitions, sizes, defaults, and examples.
Java choose	https://link.springer.com/chapter/10.1007/978-3-031-22842-1_3	This is a book chapter structure, and can help you learn the concept of choice structure in Java and usage. It includes if-then, if-then-else, and nested if structures, as well as if-then-else-if and if-then-if structures. It also discusses the hanging else problem. It uses flowcharts, pseudocode, and Java code to explain the selection structure.
Java control structure	https://www.baeldung.com/java-control-structures	This is a web page tutorial, can help you learn Java control structure, including the conditions of branch, loop and jump. It includes use and examples of if/else/else if, ternary operators, and switch statements. It also introduces the functions and precautions of jump statements such as break, continue, return, etc.
Java cycle complete guide	https://ioflood.com/blog/loops-in-java/	This is a web page tutorial, can help you from basic to advanced to grasp the usage of the cycle of Java. It covers the basic concepts of loops, usage scenarios, alternative approaches, and frequently asked questions. It includes the use and examples of statements such as for, while, do-while, foreach, break, continue, etc.

Java file input/output	https://www.codingdrills.com/tutorial/java-tutorial/file-io-in-java	This is the basis of a web page tutorial that can help you understand the basic concepts of Java file I/O and operations. It introduces the usage and examples of File class, FileInputStream class, FileOutputStream class, BufferedReader class, BufferedWriter class, and so on. It also provides some practice questions and answers to help you consolidate what you have learned.
Java file to read and write methods	https://www.vogella.com/tutorials/JavaIO/article.html	This is a web page tutorial, and can help you learn how to use Java in Java. Nio. File the API to read and write files. It introduces the usage and examples of the InputStream class, OutputStream class, Path class, Files class, and so on. It also explains how to use NIO2 to handle advanced functions such as asynchronous file I/O and file monitoring.
Basic concepts and operations of an array of Java	https://www.w3schools.com/java/java_arrays.asp	This is a web page tutorial, can help you understand the definition of a Java array, statements, initialization, access, traversal, sorting, searching and other basic concepts and operations. It provides a lot of easy-to-understand sample code, as well as some practice questions and quizzes to help you test what you've learned.
Advanced usage and transformation of an array of Java	https://www.baeldung.com/java-arrays-guide	This is a web page tutorial, can help you learn more advanced usage of an array of Java and transformation. It describes how to use multi-dimensional arrays, dynamic arrays, array utility classes, array streams, and other features and methods. It also explains how to convert arrays into other objects, such as lists or streams, and how to

		handle exceptions and errors in arrays.
Java platform standard edition 8	https://docs.oracle.com/javase/8/docs/api/	This is a web document API specification, provides the Java platform standard edition 8 all package, class, interface, method, field, enumeration and annotations of details and link. It helps you understand and use the various functions and features of Java 8, as well as the relationships and constraints between them.
Java Swing (GUI) Programming: From Beginner to Expert	https://www.udemy.com/course/java-swing-complete/	This is an online course, to teach you how to use the Java Swing, Java's built-in user interface toolkit, To create desktop and web applications. The course contains many examples and exercises, as well as two complete application development processes. The course is suitable for beginners and learners with a certain foundation.

Internet Favorites List:

Go home and add these sites to your favorites list / bookmark on the browser.