

**Unit 1:**

Java String Handling, String constructors, Special String Operations, character extraction, string comparison, searching, modification, String buffer and operations. Simple Type wrappers in Java. Java Collections. Overview of Interfaces (Collection, Set, List, Queue, Map etc). Overview of classes. Working with classes. Overview of Algorithms

**Unit 2:**

Java Input/output: Files, Directories, Creating Files and Directories, The stream classes, Character Streams. Designing Simple File Handling Programs.

Event Handling, The Delegation Event model, Events, Event Sources, Listeners, Event Classes, Event Listener Interfaces, Handling Mouse and Keyboard Events.

**Unit 3:**

Introduction to AWT, working with windows, Graphics and Text, AWT Classes, Window Fundamentals, Frames, Working with Graphics, color, Fonts. Designing simple programs. Using AWT controls, Layout Managers and Menus. Adding and Removing controls. Responding to controls. Handling Events.

**Unit 4:**

Introduction to Swings: JApplet, Icons, labels, Text fields, Buttons, Combo boxes, Tabbed Panes, Scroll Panes. Exploring Swings with simple programs. Introduction to Java Database Connectivity. Inserting, Deleting and updating database. Performing basic operations on Records.

**Recommended Books**

- 1) Programming with Java, E. Balaguruswamy, Tata McGraw Hill
- 2) Java The Complete Reference, Herbert Schildt, Tata McGraw Hill
- 3) Java How to program, Dietel and Dietel, Pearson Education

The bottom of the page features several handwritten signatures and initials in black ink. From left to right, there is a signature that appears to be 'S. K. S.', followed by 'Vijaya', 'S. K. S.', 'S. K. S.', 'S. K. S.', 'S. K. S.', 'S. K. S.', and finally a large, stylized signature on the far right.