

Phase	Topic	What to Learn	Resources	Outcome
✔ Step 1	OOP in Java	Classes, Objects, Constructors, Encapsulation	Java OOP - W3Schools Java OOP - Programiz	Create User and PasswordEntry classes
✔ Step 2	Collections	ArrayList, HashMap, iteration	Java Collections - GeeksForGeeks ArrayList Tutorial	Store multiple password entries
✔ Step 3	File I/O	FileWriter, BufferedReader, Scanner	File I/O in Java - Programiz	Save/load password data in .txt or .dat
Step 4	Java Encryption (AES)	Use javax.crypto	AES in Java - Baeldung YouTube: AES in Java	Encrypt & decrypt passwords securely
Step 5	Exception Handling	try, catch, finally, custom messages	Java Exceptions - Oracle W3Schools	Graceful handling of errors
Step 6 (Optional)	Java Swing GUI	JFrame, JPanel, JButton, JTextField	Swing Tutorial - Oracle YouTube GUI Build	Add user interface instead of console