

## Christian Rapp | Career Services Assignment 3 – Java Flash Cards

**Points possible:** 50

Category	Criteria	% of Grade
Completeness	All requirements of the assignment are complete.	100

**Instructions:** Research common Java interview questions online and create 20 flash cards from the information you find. Study your flash cards regularly to better prepare for interviews. Fill out the table below with the information you put on each of your flash cards.

Front of Card	Back of Card
What is Java?	Java is a high-level programming language and is platform-independent.
What are the Four Pillars of OOP?	Abstraction, Encapsulation, Inheritance, Polymorphism
What is the purpose of Encapsulation?	To protect the code from others and to ease code maintainability
What is Inheritance?	Inheritance allows one class to extend another class for code reusability.
What is Polymorphism?	The ability of an object to take many forms by defining one interface
What is a Class?	A class is the “blueprint” from which individual objects are created.
What is an Object?	An object is an instance of a class which has an identity, state and behavior.
What is an Interface?	A template that only contains method declarations and no method implementations
What is a Public access specifier?	Public specifiers allow members to be accessed in the same package or other packages
What is a Private access specifier?	Private specifiers are visible in the same class only. They cannot be accessed by other classes in the same package or other packages.
What is a Collection?	Collection represents a group of individual objects. They are used for searching, sorting, manipulation, insertion & deletion
What is an Exception?	An Exception is a problem that can occur during the normal flow of execution. If that exception couldn't be handled, then the execution gets terminated before it completes the task.

What is a Checked Exception?	An exception that is checked by the compiler at runtime, usually declared by the THROWS keyword or surrounded by a try/catch statement.
What is an Unchecked Exception?	An exception that is NOT checked by the compiler at runtime, typically created by programmer error.
What is the advantage of using Exception Handling in Java?	Execution will not be terminated. Problem can be detected with catch
What is a List?	An <b>ordered</b> collection of objects in which duplicate values can be stored
What is a Set?	An <b>unordered</b> collection of objects which <b>does not</b> allow duplicate values
What is a Map?	Maps use <b>key value pairs</b> to store data. Keys cannot be duplicated but values can. An example would be a dictionary or a list of zip codes / cities.
What is a Constructor?	A block of code used to initialize an object.
What is a Wrapper Class?	Wrapper classes convert Java primitives into reference types (objects). They “wrap” the primitive data into an object of that class.