Java 17

List of software’s required

1. JDK 17
2. Eclipse IDE

Java - platform independent and object oriented programming language

Customer - getDetails(), withdraw(), deposit()

Account - getBalance(), credit(), debit()

Two main building blocks of an object oriented language

1. class - template for an object
2. object - instance of a class

Java Fundamentals

* Datatypes & Variables
* Arrays
* Operators
* Conditional Statements
* Loops
* Classes & Objects

A class can have

1. variables
2. methods
3. constructors

Constructors: These names must be same as the class name, they are called when object is created, by default compiler creates a default constructor in case the class doesn’t have any explicit constructor, however if the class have any explicit constructor then compiler doesn’t create any constructor

OOPs principles

1. Inheritance - extends
2. Encapsulation - private data & public methods
3. Polymorphism - overloading & overriding
4. Abstraction - interface & abstract class

Day 2

* Inner classes - local, anonymous, nested, static inner classes
* Java 8 features - functional interface, lambda expression, default & static methods
* Packages & Access Specifiers like private, public, protected & no access specifier
* Factory design pattern to write a loosely coupled code
* Identify & Create the necessary java classes for your project (no need to create DB / Business logics right now) - create a separate java project for this