

Week 5 - 9: In-depth Study of Object-Oriented Programming (OOP)

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Learning Objective

- 1. Understand the core principles of Object-Oriented Programming (OOP).
- 2. Apply OOP concepts to design and implement efficient and maintainable software solutions.
- 3. Demonstrate proficiency in using key OOP features such as encapsulation, inheritance, and polymorphism.
- 4. Analyze and evaluate the advantages and disadvantages of OOP in different programming scenarios.

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Object Oriented Programming

Object-Oriented Programming (OOP) is a paradigm that promotes the organization of code through the use of objects, encapsulation, inheritance, and polymorphism. It provides a modular structure for software design, making it scalable, reusable, and easy to maintain.

Object-Oriented Programming (OOP) is a programming paradigm based on the concept of "objects," which can encapsulate data and behaviors. The fundamental principles of OOP provide a structured approach to software development, fostering code organization, reusability, and ease of maintenance.

Basic Object-Oriented Programming Concepts



Advanced Object-Oriented Programming Concepts

Abst	raction	
- Com	position	
Desi	gn Patterns	

Assignment

Discuss the strengths and weaknesses of OOP. Explain the designing of a software system using OOP principles.