ENUMS IN JAVA

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Introduction

Enums (short for Enumerations) in Java are a special data type that enables a variable to be a set of predefined constants. Enums are used when we have a fixed set of related constants, like days of the week, seasons, or states.

Key Concepts:

1 ENUM: A TYPE THAT REPRESENTS A FIXED SET OF CONSTANTS.

2 ENUM CLASS: UNLIKE TRADITIONAL CLASSES, ENUM CLASSES AUTOMATICALLY EXTEND JAVA.LANG.ENUM AND CANNOT EXTEND OTHER CLASSES.

3 TYPE SAFETY: ENUMS PROVIDE TYPE SAFETY, ENSURING THAT ONLY VALID VALUES ARE ASSIGNED TO THE ENUM VARIABLE.

Why Use Enums?

1 CLARITY: ENUMS PROVIDE A CLEAR AND READABLE WAY TO REPRESENT A FIXED SET OF CONSTANTS.

2 TYPE SAFETY: PREVENTS THE USE OF INVALID CONSTANTS, IMPROVING THE RELIABILITY OF YOUR CODE.

3 FUNCTIONALITY: ENUMS CAN INCLUDE FIELDS, METHODS, AND CONSTRUCTORS, MAKING THEM MORE POWERFUL THAN TRADITIONAL CONSTANTS.