DAY-13

# JAVA:

## GENERICS:

Generics in java are introduced in J2SE 5.0 to deal with type safe objects.

Before generics we are storing any type of objects in collections

WHY GENERICS:

* Type Safety
* Code Reusability
* Readability & Maintenance

GENERIC CLASS:

A Generic class uses type parameters to allow the class to work with any data types.

GENERIC METHOD:

A Generic method takes a parameter and returns some values after performing a task.

1. NORMAL METHOD: has a fixed data type for its parameters & return type.
2. GENERIC METHOD: has type parameters defines what type of data method should work.

TYPE PARAMETERS:

1. T: TYPE => any data type
2. E: ELEMENT => used in collections
3. K: KEY => used in map
4. N: NUMBER
5. V: VALUE

WILD CARD: (?) => it represents an unknown type.

WILD CARD TYPES:

1. Unbounded
2. Upper Bounded
3. Lower Bounded