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Generics in Java

=> Generics :-

- ➔ Generics means parametrized types which means that we can provide any type of parameter to the classes, interfaces or methods
- ➔ Generics were introduced in JDK 1.5 version
- ➔ Generics are represented by angular braces - < >
- ➔ The main objective of Generics are :-
 1. To provide type safety
 2. To resolve type casting problem
- ➔ By default "arrays are type safe"
- ➔ Now for collections, till JDK 1.4 version, collections were not generic types
- ➔ In JDK 1.5 version, Generic Collections were introduced
- ➔ **NOTE :** We can only provide non-primitive values in generics

=> Generic Classes :-

- ➔ If any class is declared with type parameters then it is known as Generic Class
- ➔ Generic classes can be user-defined classes or predefined classes (collections classes)
- ➔ Generic type can be any valid identifier name
- ➔ We can provide any number of parameters in generics

=> Generic Bounded Types :-

- ➔ We can bound the type parameter for a particular range by using extends keyword. And

this concept is known as Generic Bounded Type Concept

➔ Syntax : class A<T extends X>
(X can be any class or interface)

➔ Cases :-

1. We can only use extends keyword, not implements keyword
2. We can only use Non-Primitive data types
3. class A<T extends X & Y>

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