Java Generics

Parametric Polymorphism

BOUNDED GENERIC TYPE

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Declaration of a Bounded Generic Type
Children Under the Parent Class

- A generic type can be specified as a subtype of another type. Such a generic type is called **bounded**. For example, BouundedTypeDemo.java revises the **equalArea** method in BouundeTypeDemo.java,

- TestGeometricObject.java, to test whether two geometric objects have the same area. The bounded generic type **<E extends GeometricObject>** (line 7) specifies that **E** is a generic subtype of **GeometricObject**. You must invoke **equalArea** by passing two instances of **GeometricObject**.

- The unbounded generic type**<E>** is the same as **<E extends Object>**.

- To define a generic type for a class, place it after the class name, such as **GenericStack<E>**. To define a generic types for a method, place the generic type before the method return type, such as **<E> void max(E o1, E o2)**

Generic Maximum Finding

Demo Program:Max.java+MaxUsingGenericType.java+MaxDemo.java:

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Demonstration of Bounded Type

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