Generic Classes

- <T>
- <T> takes any non-primitive object
- helps in avoiding type casting
- when we are extending Generic class to non-generic subclass, we need to define 'generic'
- we don't need to define 'generic' if we have generic sub-class
- We can make one method as generic too

```
public <T> returnType methodName () {
}
```

Raw Type

o If we don't pass anything to generic, internally compiler will pass 'Object' type to it

Bounded generic

- Bound types of objects generic takes
- Upper bound setting upper bound of object.
 - <T extends Number> accept all Number and its Child classes
- Multi bound extends one concrete class and implement interfaces
 - must be parent class or below it, and also implement interfaces
 - <T extends ParentClass & interface1 & interface2>

WildCards generic

- In wildcards we can provide different types, but in generics we need to have same type or define second generic variable
- In generic we don't have 'super' keyword
- In 'generic types' we can have multiple generic type variables
- o Upper bound wildcard same class and all its child classes are allowed
 - <? extends MainClass>
- Lower bound wildcard given class and above it
 - <? super SubClass>
- o Unbounded wildcard when we don't know what type we can have
 - applies on 'Object'
 - **<**?>

Type Erasure

<T> will be replaced with type when bytecode gets generated