## Inheritance Con't

## **Abstract Class**

 To be used when there are no good default methods in the superclass, and only the subclass programmer can know how to implement the method properly.

```
public abstract BankAccount{ // abstract class
    public abstract void withdraw(double amount); // method declaration
}
```

- It essentially provides a 'requirement' for subclasses to **have** to provide that method.
- Abstract methods have no implementation.
- It forces the subclass to implement the method.
- Cannot construct objects of abstract classes.
- Concrete classes are the opposite of abstract classes.
- There is a good example on JavaCoffeeBreak

## THE COSMIC SUPERCLASS Object:

- In Java, every class that is defined without an explicit extends clause automatically extends the class Object.
- The class Object is the direct or indirect superclass of every class.
- Useful methods of the Object class:

```
    String toString()
    boolean equals
```