```
Inheritance ---> Polymorphism ---> Case study for Inheritance + Polymorphism (Design pattern)
- Polymorphic (having many different shapes/forms)
Example#1:
UIControl (render) --- Checkbox (render)
Radiobutton (render)
Lessons:
- Interfaces can serve as data types in Java. If I use interface name as a data type for
a given variable, then the only objects that can be referenced by that variable are
the ones created from classes that implement Speaker interface.
Speaker ---> speak()
Philosopher implements Speaker
Politician implements Speaker
Speaker s = new Philosopher();
- Idea: generate random objects (shapes).
Example#2: RandomShapeGenerator
The version of the method that should be called is determined by the type of the object
referenced by the variable used to call the method.
- Bigger example:
Example#3: YetAnotherPolymorphismExample
Speaker ---> speak()
Philosopher implements Speaker
Politician implements Speaker + bicker method
Speaker s = new Politician();
((Politician) s).bicker(); ?
```