```
public class Soap {
                                                Soap
                                                PoodleSoap
   public class Poodle Soap extends Soap &
                         callowed to pass in Poodle soap
   Public class Dog ?
                                                        Dog
   * public void wash (Soap s) {
System.out.println("Dog is clean!");
                                                       Poodle
                                             overriding: method
   public class Poodle extends Dog &
                                                      signature is same
   Public void wash (Poodle Soap S) {
System. out. printin ("D-- ")
                                                    same name
        system out printin ("Poodle is oodles clean!");
                                                    same parameters
                          -overloading!
                                                                  Static
                                                                             Dynamic
P Poodle fifi = new Poodle (); fifi. wash (new Soap()); Dog is clean!
                                                                              Poodle
                                                                 Poodle
   fifi. wash (new Poodle Soap ()); Poodle is oodles clean!
                                                                              Poodle
                                                                  Dog
                                                       froutroy
   Dog frontron = new Poodle();
frontron. wash (new Soap()); Dog is clean!
 frontion. Wash (new Poodle (oap ()); Dog is dean!
    Compiler Notes
   1. Wash (Soap)
  2. Wash (Poodle Soap)
  3. Wash (Soap)
  4. Wash (Soap) *
```

Summary

- · Compiler is a cautious proofreader
- · Compiler only knows static type

Method Procedure

- 1. During compile time, look in static type for method
- 2. Write down exact method signature including name and parameters
- 3. During run-time, only overvide if method signature is the same including parameters.