Class Syntax Primer

Methods:

```
public returnType methodName( declareParameterVariables ) {
            //method body
Constructors:
     public className(declareParameterVariables ) {
            //constructor code
            //initialize instance fields
Instance Fields:
     private type variableName;
      //Do not initialize the Instance Fields here...Do it in the
      //constructor.
Local variables:
      type variableName;
                             //declaration
             or
      type variableName = value; //declaration and initialization
      //Variable names must start with a lowercase letter.
      //Do not reuse names that have already been used.
      //Only declare your variables one time!
Example:
public class Demo{
                                    //class header
     private String name;
                                    //declaring an instance field
     public Demo(String input) {
                                    //constructor header, with String
                                    // parameter declared
            name = input;
                                    //assign parameter value to instance field
     public String getName() {
                                    //method header, no parameters,
                                    //String return type
                                    //return a String
            return name;
     public void changeName(String newName) { //method head, String
                                    //paramter, void return type (no return)
                                    //assign parameter value to instance field
            name = newName;
      }
}
```

```
public class DemoMain() {
    public static void main(String[] args) {
        Demo obj = new Demo("Hopps");
        String t = obj.getName();
        System.out.println(t);
        obj.changeName("Mr. Hopps");
        System.out.println( obj.getName() );
    }
}
```

This DemoMain class creates an object of the Demo type, with an initial name of "Hopps".

It gets the name out of the object, and prints it.

It changes the name to "Mr. Hopps".

It prints the name again, this time with "Mr. Hopps" as the output.