

Java classes

The following program defines a class, *Name*, with two constructors and a display method. Note that constructors have the same name as their class and lack a return type. The second constructor below shows how to break a string into two parts, separating the substrings to the left and right of the first space.

```
/*
   name.java:

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*/
import java.util.Scanner;

public class name
// Application
{
public static class Name
{
    private String first;
    private String last;
    public Name()
    {
        first = new String();
        last = new String();
    }
    public Name(String s)
    {
        // Find space:
        int space = 0;
        for (int i=0; i < s.length(); i++)
            if (s.charAt(i) == ' ')
                space = i;
        first = new String(s.substring(0,space));
        last = new String(s.substring(space+1));
    }
    public void display()
    {
        System.out.println("First: " + first +
            " Last: " + last);
    }
};

public static void main(String[] args)
{
    // Get name:
    System.out.print("Enter your full name: ");
    Scanner cin = new Scanner(System.in);
    String input = cin.nextLine();
    Name nm = new Name(input);
    nm.display();
}
}
```