

Data

Type	Description	Syntax
Strings	Words	" " , Strings
Numbers	Numbers	int , double
Boolean	true or false	boolean, true, false

All of the Syntax column is case sensitive
Information is data with context

Useful methods and operations

Method	Description
throw new IllegalArgumentException(String);	used to show an error
Integer.toString(i) and Double.toString(i)	takes and int or a double and makes them strings
"String".equals(" String")	checks if two strings are equal

Example Template

```

/*
 * Fields:
 * this.x, this.y, this.radius
 *
 * Methods:
 * this.sameShape(IShape) -> boolean
 * this.sameCircle(Circle) -> boolean
 *
 * Methods on fields:
 *
 * Fields of parameters:
 *
 * Methods on parameters:
 * that.sameShape(IShape) -> boolean
 */

```

Abstracts and Subclass

```

// Interface for a Shape
interface IShape {
}

// Abstract of a Shape
abstract class AShape implements IShape {
    String color;
    AShape(String color) {
        this.color = color;
    }
}

// to represent a rectangle
class Rect extends AShape {
    int width;
    int height;

    Rect(int width, int height, String color) {
        super(color);
        this.width = width;
        this.height = height;
    }
}

// Subclass square that extends Rectangle
class Square extends Rect {

    Square(int size, String color) {
        super(size, size, color);
    }
}

```



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