

CompEd'19

Integrating Drawing Tablet and Video Capturing/Sharing
to Facilitate Student Learning

```

public class Person {
    double weight; /* kilograms */
    double height; /* meters */

    Person (double weight, double height) {
        this.weight = weight;
        this.height = height;
    }

    double getBMI() {
        double bmi = this.weight / (this.height * this.height);
        return bmi;
    }

    void gainWeight(double amount) {
        this.weight = this.weight + amount;
    }
}

```

OOP: Classes, Methods, Objects

~ context objects

~ aliasing

```

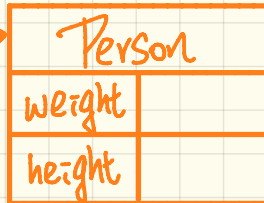
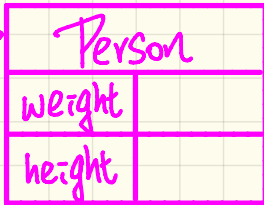
public class PersonTester {
    public static void main(String[] args) {
        Person jim = new Person(72, 1.72);
        Person jonathan = new Person(65, 1.81);

        System.out.print("Jim's BMI: ");
        System.out.printf("%.2f\n", jim.getBMI());
        System.out.print("Jonathan's BMI: ");
        System.out.printf("%.2f\n", jonathan.getBMI());

        jim = jonathan;
        jim.gainWeight(3);

        System.out.print("Jim's BMI: ");
        System.out.printf("%.2f\n", jim.getBMI());
        System.out.print("Jonathan's BMI: ");
        System.out.printf("%.2f\n", jonathan.getBMI());
    }
}

```



```

public class Person {
    double weight; /* kilograms */
    double height; /* meters */

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    }

    double getBMI() {
        double bmi = this.weight / (this.height * this.height);
        return bmi;
    }

    void gainWeight(double amount) {
        this.weight = this.weight + amount;
    }
}

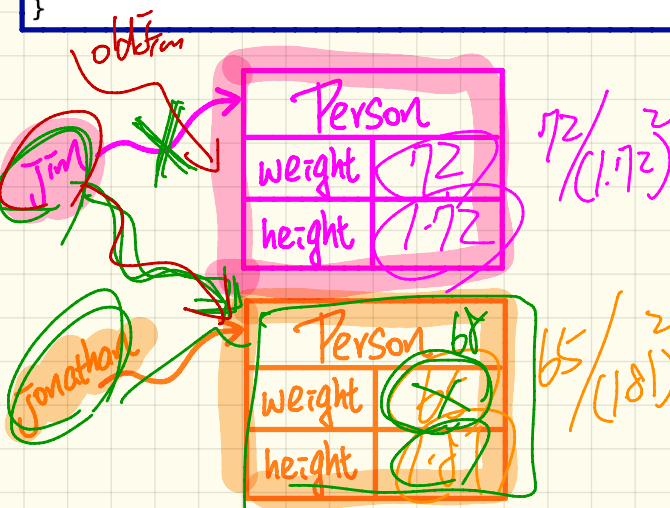
```

OOP: Classes, Methods, Objects

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Jim
~~this~~ ~~weight~~ / (~~this~~ ~~height~~ * ~~this~~ ~~height~~);
Jon.



```

public class PersonTester {
    public static void main(String[] args) {
        Person jim = new Person(72, 1.72);
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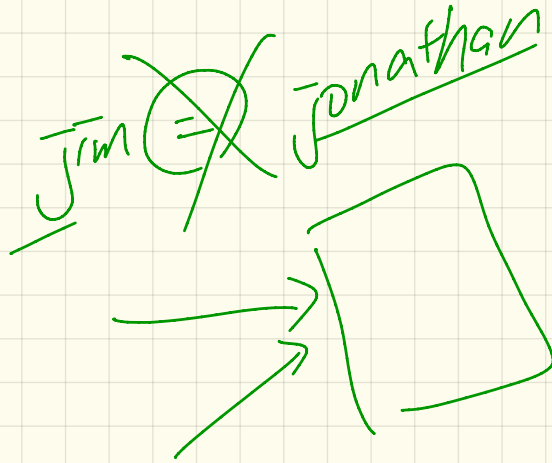
        Person oldJim = jim;
        jim = jonathan;
        jim.gainWeight(3);

        System.out.print("Jim's BMI: ");
        System.out.printf("%.2f\n", jim.getBMI());
        System.out.print("Jonathan's BMI: ");
        System.out.printf("%.2f\n", jonathan.getBMI());
    }
}

```

Person oldJim = jim;
jim = jonathan;
jim.gainWeight(3);
~~Jim~~ = ~~Jon~~ = *oldJim*
Jim.getBMI()
Jon.getBMI()

Questions about OOP



Contribution: Effective After-class Learning

