

Week 10

March 26 2023

Week 10 Prog 4

Step 2 - DECLARE 3 different instances of a cube: C1, C2, C3

Step 3 - USE the three instances of the cube.

set the length, width and height of each: C1: 2,3,4 and C2: 3,4.5,7 and C3: 4,,9.5,42 by calling the set functions.

get volume of each cube

package Prog4;

```
class prog4 {
  public static void main(String[] args) {
     cube c1 = new cube();
     cube c2 = new cube();
     cube c3 = new cube();

     c1.setLength(2);
     c1.setWidth(3);
     c1.setHeight(4);

     c2.setLength(5);
     c2.setWidth(4.5);
     c2.setWidth(4.5);
     c3.setLength(7);

     c3.setLength(4);
     c3.setLength(4);
     c3.setWidth(9.5);
     c3.setHeight(42);

     System.out.println("C1 volume = " + c1.getVolume());
     System.out.println("C2 volume = " + c2.getVolume());
     System.out.println("C3 volume = " + c3.getVolume());
```

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```
System.out.println("Philip Pesic 3/26/23");
package Prog4;
public class square {
  public void setLength(double length) {
  public double getLength() {
  public double getWidth() {
package Prog4;
public class cube extends square {
```

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```
public void setHeight(double height) {
    this.height = height;
}

public double getHeight() {
    return this.height;
}

public double getVolume() {
    return getArea() * this.height;
}
```

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I learned how to write my own inheritance