Philip Pesic

Week 7

March 5 2023

Week 7 Prog 1

Exercise 1 - The square. In one program, write 2 separate functions, and use them.

a) Prompt the user for the length of one side of the square, and assign/save it in a variable, length

Use the saved length value, to calculate the correct 'return' value for the following 2 functions

- b) Function to Calculate area of square, double calcArea (return length * length;)
- c) Function to Calculate perimeter of square, double calcPerimeter (return 4*length;)

```
package Progl;
import java.util.Scanner;

class progl {

   public static double area(double x) {
       double area = x * x;
       return area;
   }

   public static double perimeter(double x) {
       double perimeter = x * 4;
       return perimeter;
   }

   public static void main(String[] args) {
       double length;
       Scanner input = new Scanner(System.in);
       System.out.print("Enter length: ");
       length = input.nextDouble();
```

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```
input.close();
                                                          System.out.println("Perimeter: " + perimeter(length));

        ✓ PROGRAMS
        Prog1 > J prog1java > ₹ prog1 > ∅ main(String[])

        ✓ Prog1
        1 package Prog1;

        J prog1java
        0 2 import java.util.Scanner;

        > Prog2
        3

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ⊳ ~ ზ ⊞ …
EXPLORER
                                                                                                                                       public static double area(double x) {
    double area = x * x;
    return area;
}
                                                                                                                                                                   public static double perimeter(double x) {
    double perimeter = x * 4;
    return perimeter;
}
                                                                                                                                                                            Run|Debug
public static void main(String[] args) {
    double length;
    Scanner input = new Scanner(System.in);
    System.out.print(5% "Enter length: ");
    length = input.nextDouble();
                                                                                                                                                                                       System.out.println("Area: " + area(length));
System.out.println("Perimeter: " + perimeter(length));
System.out.println(%: "Philip Pesic 3/5/23");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Programs git:(main) x /usr/bin/env /Library/Java/JavaVirtualMachines/temurin-17.jdk/Contents/Home/bin/java —XX:+ShowCodeDetailsInExceptionMessages —cp /Users/pippo/Library/Application\ Support/Code/User/workspaceStorage/25f417357d4leaaaaeclfdab465f5bca/redhat.java/jdt_ws/Programs_a83e32e9/bin Progl.progl
Enter Length: 48.0
Philip Pesic 3/5/23
Programs git:(main) x cd /Users/pippo/github/cs284/Week7/Programs; /usr/bin/env /Library/Java/JavaVirtualMachines/temurin-17.jdk/Contents/Home/bin/java —XX:+ShowCodeDetailsInExceptionMessages —cp /Users/pippo/Library/Application\ Support/Code/User/workspaceStorage/25f417367d4leaaaaeclfdab465f5bca/redhat.java/jdt_ws/Programs_a83e3
Enter length: 21.3
Area: 453.06000000000005
Perimeter: 85.2
Philip Pesic 3/5/23
Programs git:(main) x []

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                         > TIMELINE
                              JAVA PROJECTS
```

I learned: how to write functions