

Philip Pesic

Week 8

March 12 2023

Week 8 Prog 3

Convert the code in Assignment program 2, so that you have two classes

A driver class, called mainClass, that has the main() function/methods.

In the main() method instantiate and use the EvenOdd Class.

Write a 2nd class called EvenOdd that has no main() function/method but only the following code:

int inNum;

constructor that initializes inNum to 0;

evenOddCheck method that accept 1 integer input and assigne it to inNum, then checks the inputted

value, and prints results...

```
package Prog3;
import java.util.Scanner;

public class evenOdd {
    private int inNum;
    public evenOdd() {
        inNum = 0;
    }

    public void calc() {
        Scanner reader = new Scanner(System.in);
        System.out.print("Enter a number: ");
        inNum = reader.nextInt();
        reader.close();

        if(inNum % 2 == 0) {
            System.out.println(inNum + " is even");
        }
        else {
            System.out.println(inNum + " is odd");
        }
    }
}
```

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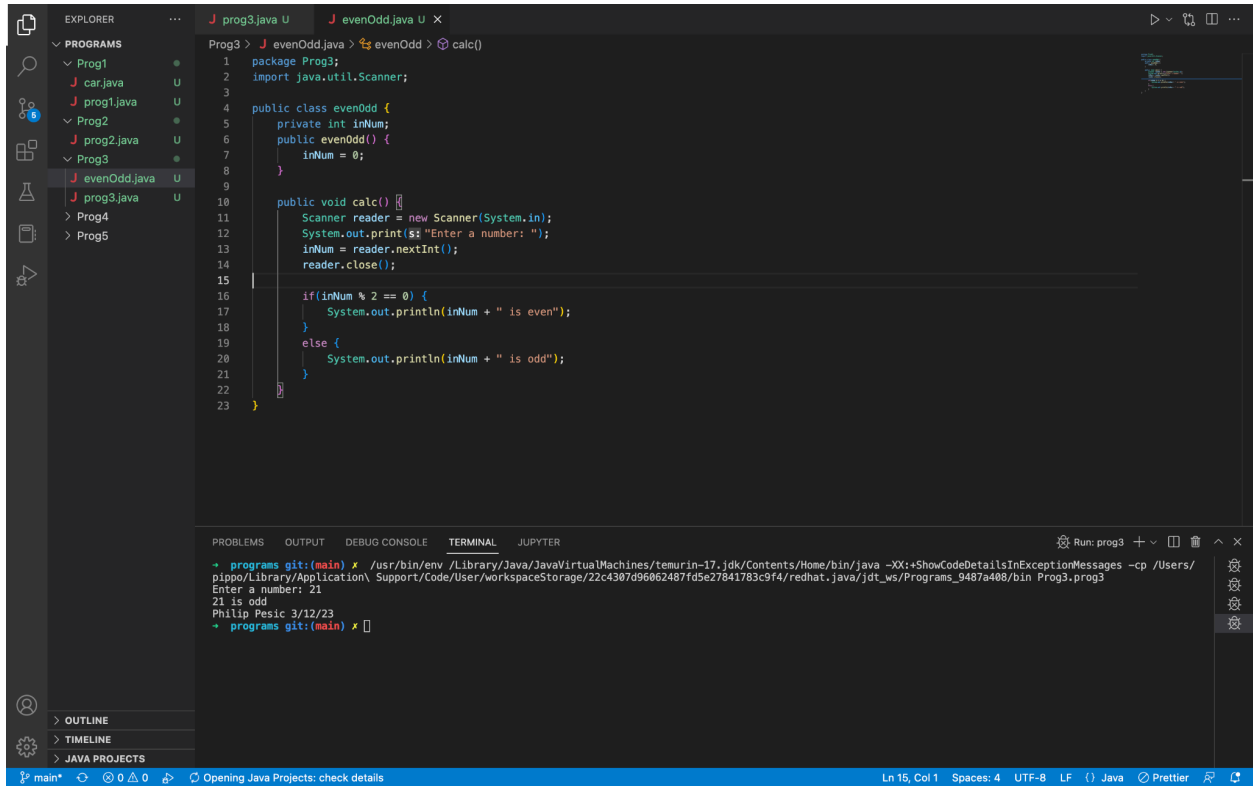
```
    }  
}  
package Prog3;  
  
class prog3 {  
    public static void main(String[] args) {  
        evenOdd calculator = new evenOdd();  
        calculator.calc();  
        System.out.println("Philip Pesic 3/12/23");  
    }  
}
```

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The screenshot shows an IDE with a project named 'Prog3'. The Explorer panel on the left lists several files: 'prog1.java', 'car.java', 'prog1.java', 'prog2.java', 'evenOdd.java', and 'prog3.java'. The main editor displays the code for 'evenOdd.java', which includes a package declaration, an import for 'Scanner', a class definition 'evenOdd' with a private 'inNum' variable and an 'evenOdd()' method, and a 'calc()' method that uses 'Scanner' to read input and prints whether the number is even or odd. The terminal at the bottom shows the command to run the program, the input '21', and the output '21 is odd'.

```
1 package Prog3;
2 import java.util.Scanner;
3
4 public class evenOdd {
5     private int inNum;
6     public evenOdd() {
7         inNum = 0;
8     }
9
10    public void calc() {
11        Scanner reader = new Scanner(System.in);
12        System.out.print("Enter a number: ");
13        inNum = reader.nextInt();
14        reader.close();
15
16        if(inNum % 2 == 0) {
17            System.out.println(inNum + " is even");
18        }
19        else {
20            System.out.println(inNum + " is odd");
21        }
22    }
23 }
```

Run: prog3

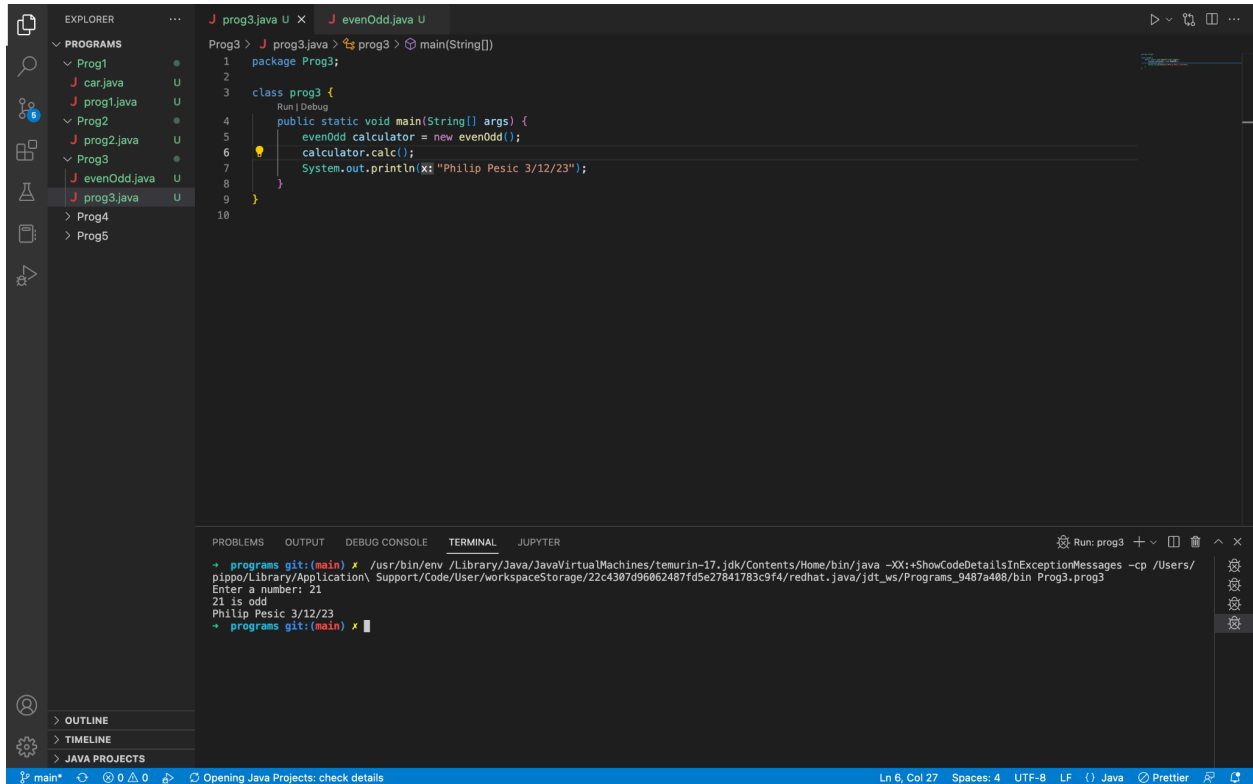
```
+ programs git:(main) * /usr/bin/env /Library/Java/JavaVirtualMachines/temurin-17.jdk/Contents/Home/bin/java -XX:+ShowCodeDetailsInExceptionMessages -cp /Users/pipipo/Library/Application\ Support/Code/User/workspaceStorage/22c4307d96062487fd5e27841783c9f4/redhat.java/jdt_ws/Programs_9487a408/bin Prog3.prog3
Enter a number: 21
21 is odd
Philip Pesic 3/12/23
+ programs git:(main) * *
```

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Week 8 Prog 3



The screenshot shows an IDE with a project named 'Programs'. The Explorer panel on the left lists several Java files: 'car.java', 'prog1.java', 'prog2.java', 'evenOdd.java', and 'prog3.java'. The main editor displays the code for 'prog3.java', which includes a package declaration, a class definition, and a main method that calls a static method 'calc()' from the 'evenOdd' class. The code is as follows:

```
1 package Prog3;
2
3 class prog3 {
4     public static void main(String[] args) {
5         evenOdd calculator = new evenOdd();
6         calculator.calc();
7         System.out.println("Philip Pesic 3/12/23");
8     }
9 }
10
```

The bottom panel shows the 'TERMINAL' output, which displays the command used to run the program and the resulting output:

```
+ programs git:(main) * /usr/bin/env /Library/Java/JavaVirtualMachines/temurin-17.jdk/Contents/Home/bin/java -XX:+ShowCodeDetailsInExceptionMessages -cp /Users/pipipo/Library/Application\ Support/Code/User/workspaceStorage/22c4307d96062487fd5e27841783c9f4/redhat.java/jdt_ws/Programs_9487a408/bin Prog3.prog3
Enter a number: 21
21 is odd
Philip Pesic 3/12/23
+ programs git:(main) *
```

I learned how to call method of other classes