Philip Pesic

Week 9

March 19 2023

Week 9 Prog 5

Prog 5 - Create a Menu Class.

* Create a new Drive class.

* Create a Menu class.

* The menu class will use the previous 4 classes you created in GCD, LCM, FACTORIAL, DIGITS

The Menu will display a menu that give you the option of selecting:

1) Greatest Common Denominator

2) Lowest Common Multiple

3) Factorial

4) Number of Digits in an Integer

Enter 1,2,3 or 4:

When the User enter the choice,

then the correct function/method is called for the class and

asks the user for input(s) to use.

The system will then display the results

```
package Prog5;
import java.util.Scanner;
import Prog1.GCD;
import Prog2.LCM;
import Prog3.Factorial;
import Prog4.Digits;

public class Menu {

   private Scanner input = new Scanner(System.in);
```

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```
   private int option;
   private GCD gcd;
   private LCM lcm;
   private Factorial factorial;
   private Digits digits;

   private int x;
   private int y;

   public Menu() {
       System.out.println("Select an option: \n Find GCF (1) \n Find LCM (2) \n Find
Factorial (3) \n Find number of Digits (4)");
       option = input.nextInt();
   }

   public void Option() {
       switch(option) {
           case 1:
               System.out.println("Enter input values: ");
               x = input.nextInt();
               y = input.nextInt();
               gcd = new GCD(x, y);
               gcd.findFactors();
               break;

           case 2:
               System.out.println("Enter input values: ");
               x = input.nextInt();
               y = input.nextInt();
               lcm = new LCM(x, y);
               lcm.getLCM();
               break;

           case 3:
               System.out.println("Enter input value: ");
               x = input.nextInt();
```

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```
                factorial = new Factorial(x);
                factorial.getFactorial();
                break;

            case 4:
                System.out.println("Enter input value: ");
                x = input.nextInt();
                digits = new Digits(x);
                digits.getDigits();
                break;

            default:
                System.out.println("Invalid Input");
                System.exit(0);
        }
    }
}


package Prog5;

class prog5 {
    public static void main(String[] args) {
        Menu menu = new Menu();
        menu.Option();
        System.out.println("Philip pesic 3/19/23");
    }
}
```

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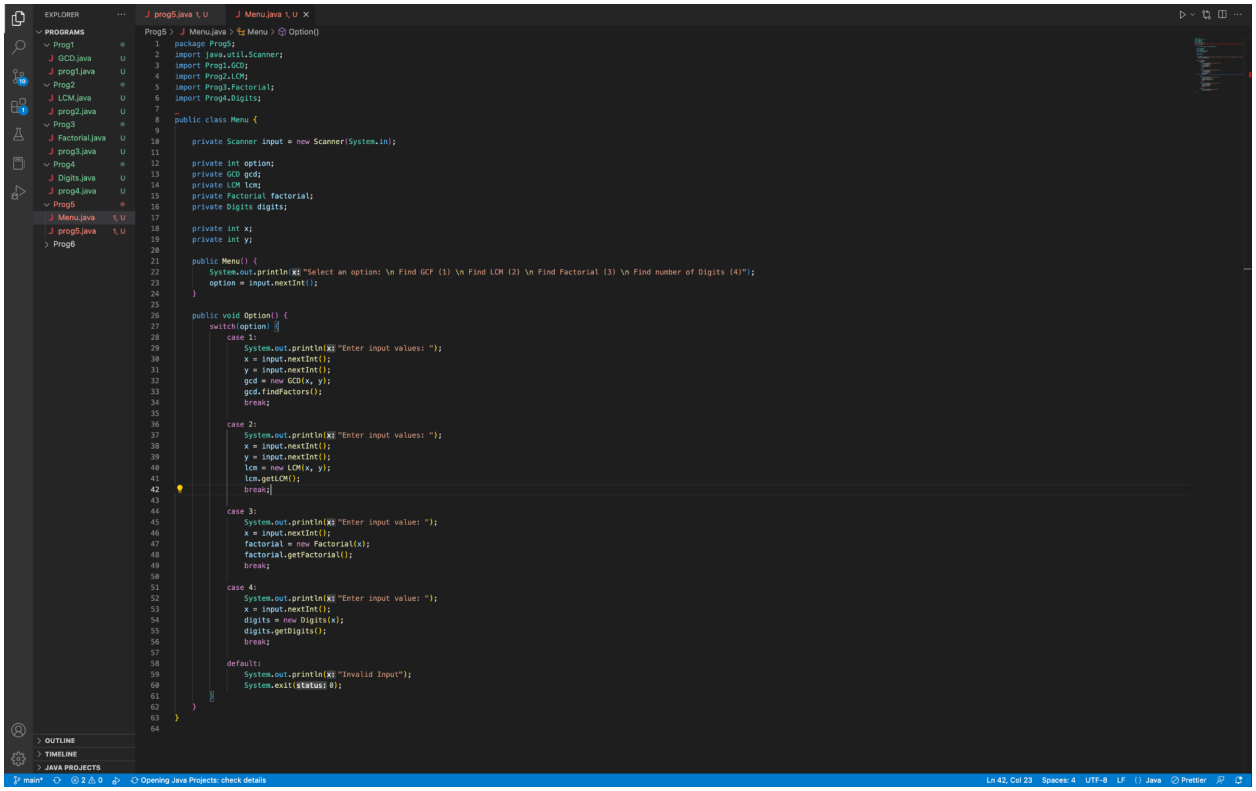

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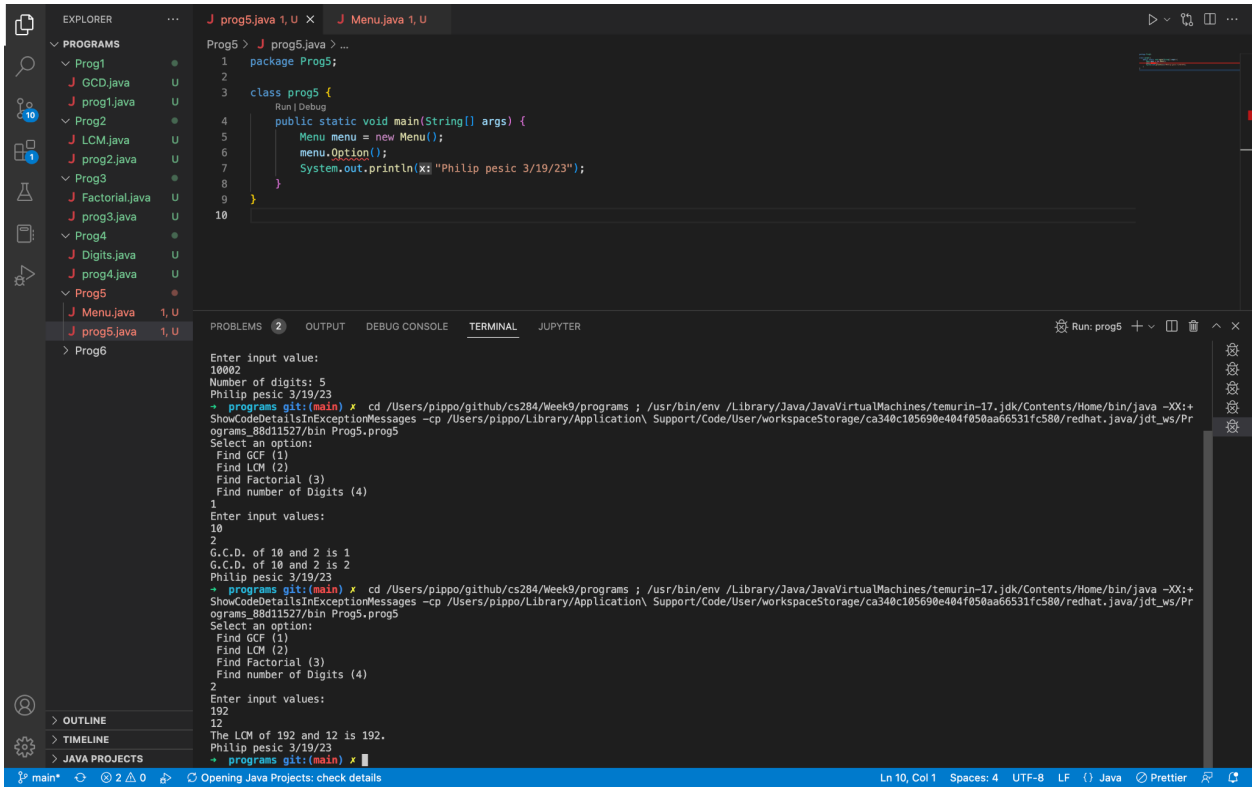

I learned: how to use composition with multiple classes