Philip Pesic

Week 9

March 19 2023

Week 9 Prog 6

Program 6 – Create and run the Program with the three classes: Part, Whole and Main found in the lecture notes above

```
class prog6 {
   public static void main(String[] args) {

       System.out.println("hello");
       WholeClass Whole1 = new WholeClass();

       System.out.println("Whole 1 - default constructor - whole X = " + Whole1.getX()
);
       System.out.println("Whole 1 - default constructor - Part 1 d = " +
Whole1.getPart1D() );
       System.out.println("Whole 1 - default constructor - Part 2 d = " +
Whole1.Part2.getD());

       Whole1.setX(20);
       System.out.println( "Whole 1 - set whole X = " + Whole1.getX() );
       Whole1.setPart1D(21);

       System.out.println( "Whole 1 - set Part 1 d = " + Whole1.getPart1D() );
       Whole1.Part2.setD(22);

       System.out.println( "Whole 1 - set Part 2 d = " + Whole1.Part2.getD() );

       WholeClass Whole2 = new WholeClass(91,92,93);

       System.out.println("Whole 2 - Parm constructor - whole X = " + Whole2.getX() );
       System.out.println("Whole 2 - Parm constructor - Part 1 d = " +
Whole2.getPart1D() );
       System.out.println("Whole 2 - Parm constructor - Part 2 d = " +
Whole2.Part2.getD() );

       Whole2.setX(51);
       System.out.println( "Whole 2 - set whole X = " + Whole2.getX() );
       Whole2.setPart1D( 52);
```

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```
        System.out.println( "Whole 2 - set Part 1 d = " + Whole2.getPart1D() );
        Whole2.Part2.setD(53);

        System.out.println( "Whole 2 - set Part 2 d = " + Whole2.Part2.getD() );
        System.out.println("Philip Pesic 3/19/23");
        }
}



public class PartClass {
   private double d;

   public PartClass() {
       d = 0;
   }

   public PartClass(double inD) {
       d = inD;
   }

   double getD() {
       return d;
   }

   void setD(double inD) {
       d = inD;
   }
}
public class WholeClass {

   public int x;
   public PartClass Part1 = new PartClass();

   public void setPart1D(double inD) {
       Part1.setD(inD);
```

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```
    }

    public double getPart1D() {
        return Part1.getD();
    }

    public int getX() {
        return x;
    }

    public void setX(int inX) {
        x = inX;
    }

    PartClass Part2 = new PartClass();

    public WholeClass() {
        x = 0;
    }

    public WholeClass(int inX, double inD1, double inD2) {
        x = inX; Part1.setD(inD1);
        Part2.setD(inD2);
    }
}
```

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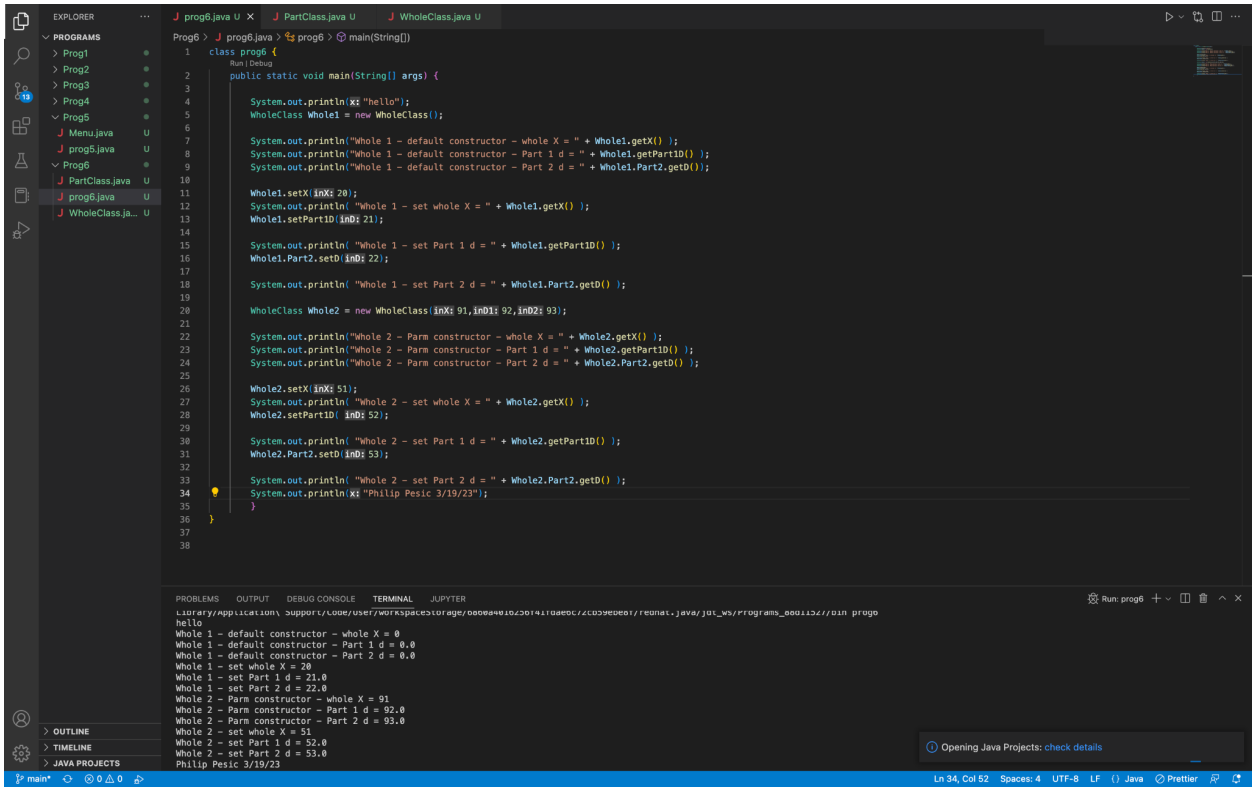

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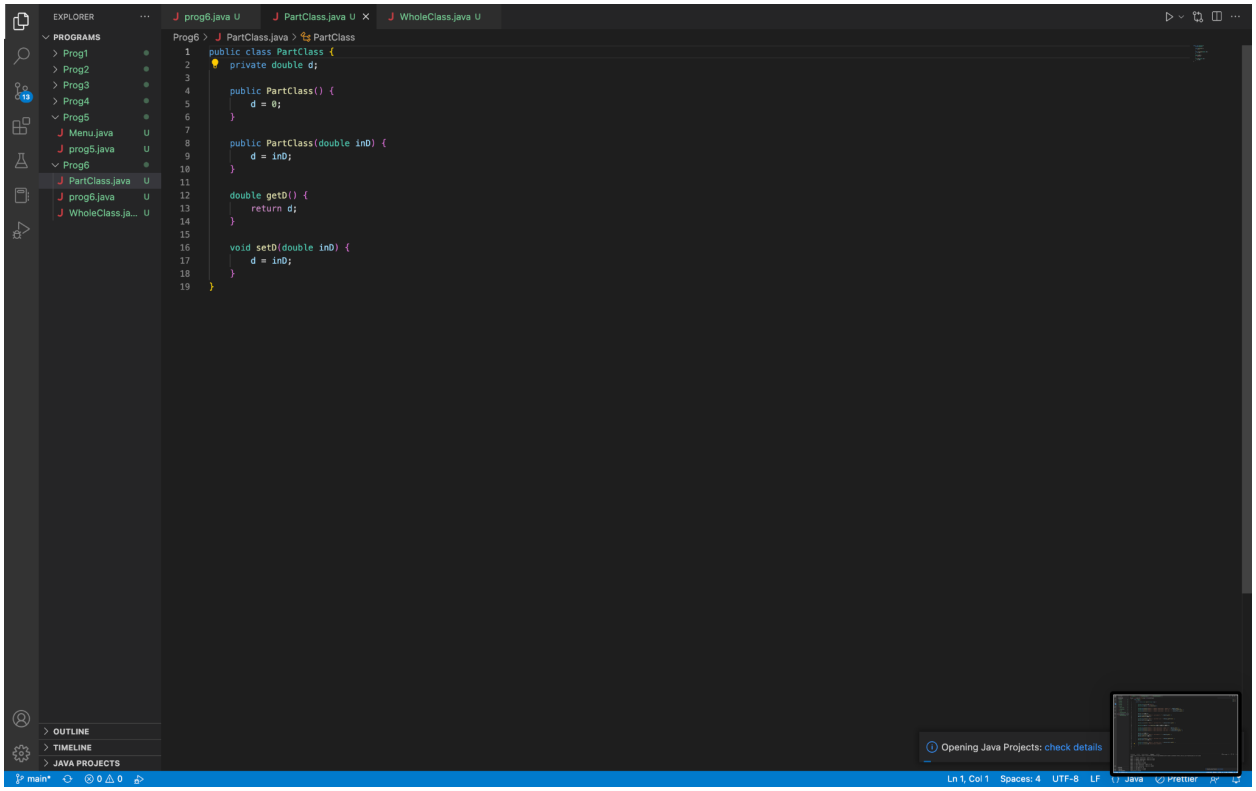

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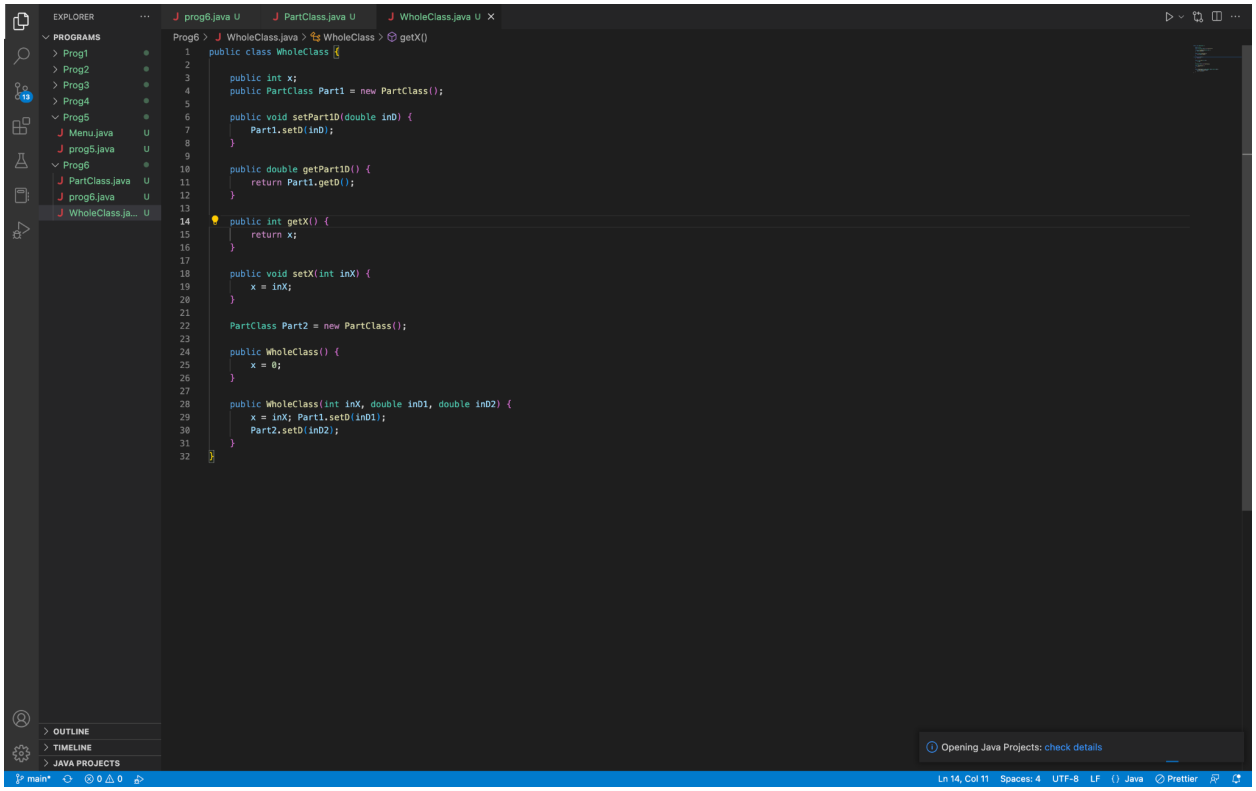

I practiced using composition