

Philip Pesic

Week 10

March 26 2023

Week 10 Prog 3

Part 3 -- Watch the video about inheritance constructors and use of key word super:

<https://www.youtube.com/watch?v=PA8LMsQuCq0>

* write a summary

* write and run the code in the video

usefilename: week10YourNamePart3summary

usefilename: week10YourNamePart3code

```
package Prog3;

class prog3 {
    public static void main(String[] args) {
        B b = new B();
        b.hello();
        System.out.println("Philip Pesic 3/26/23");
    }
}

package Prog3;

public class A {
    void hello() {
        System.out.println("Hello");
    }
}

package Prog3;

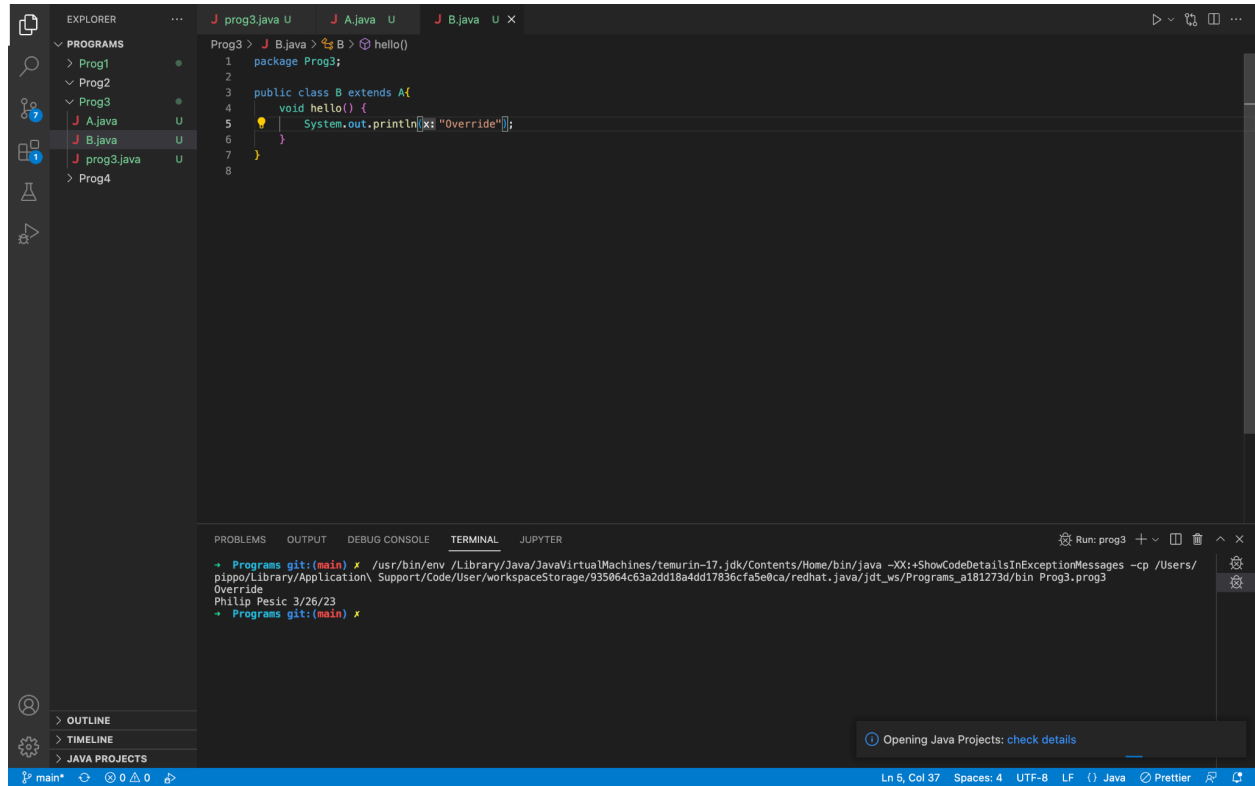
public class B extends A{
    void hello() {
        System.out.println("Override");
    }
}
```

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The screenshot shows an IDE with the following components:

- EXPLORER:** A tree view on the left showing a project structure with folders 'Prog1', 'Prog2', 'Prog3', and 'Prog4'. Under 'Prog3', there are files 'A.java', 'B.java', and 'prog3.java'. 'B.java' is selected.
- Editor:** The main area shows the code for 'prog3.java'. It contains a package declaration and a class 'B' that extends 'A'. The 'hello()' method is overridden to print 'Override'. A red squiggly line under 'Override' indicates a compilation error.

```
1 package Prog3;
2
3 public class B extends A{
4     void hello() {
5         System.out.println("Override");
6     }
7 }
8
```
- TERMINAL:** The bottom panel shows the output of running the program. It displays the command used to run the program and the output 'Override'.

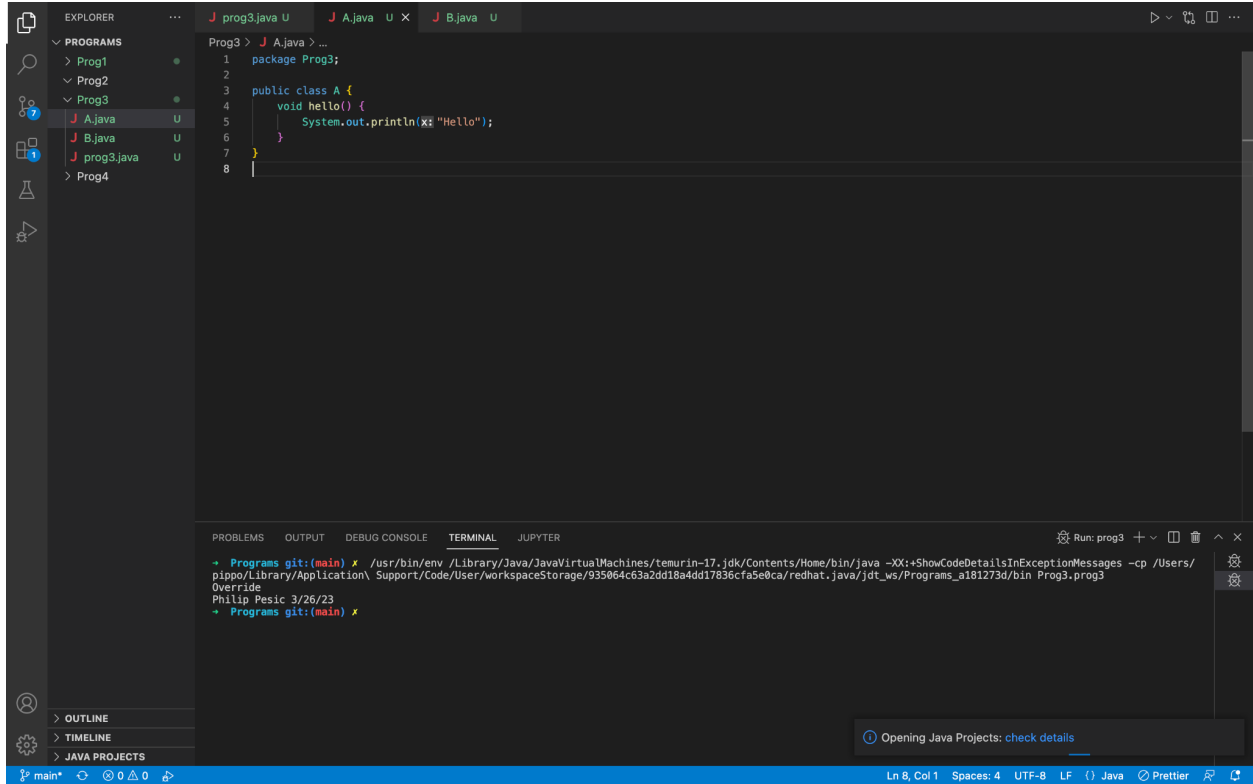
```
Programs git:(main) * /usr/bin/env /Library/Java/JavaVirtualMachines/temurin-17.jdk/Contents/Home/bin/java -XX:+ShowCodeDetailsInExceptionMessages -cp /Users/pippo/Library/Application\ Support/Code/User/workspaceStorage/935064c63a2dd18a4dd17836cfa5e8ca/redhat.java/jdt_ws/Programs_a181273d/bin Prog3.prog3
Override
Philip Pesic 3/26/23
Programs git:(main) *
```
- STATUS BAR:** The bottom of the window shows 'main*' and 'Ln 5, Col 37'.

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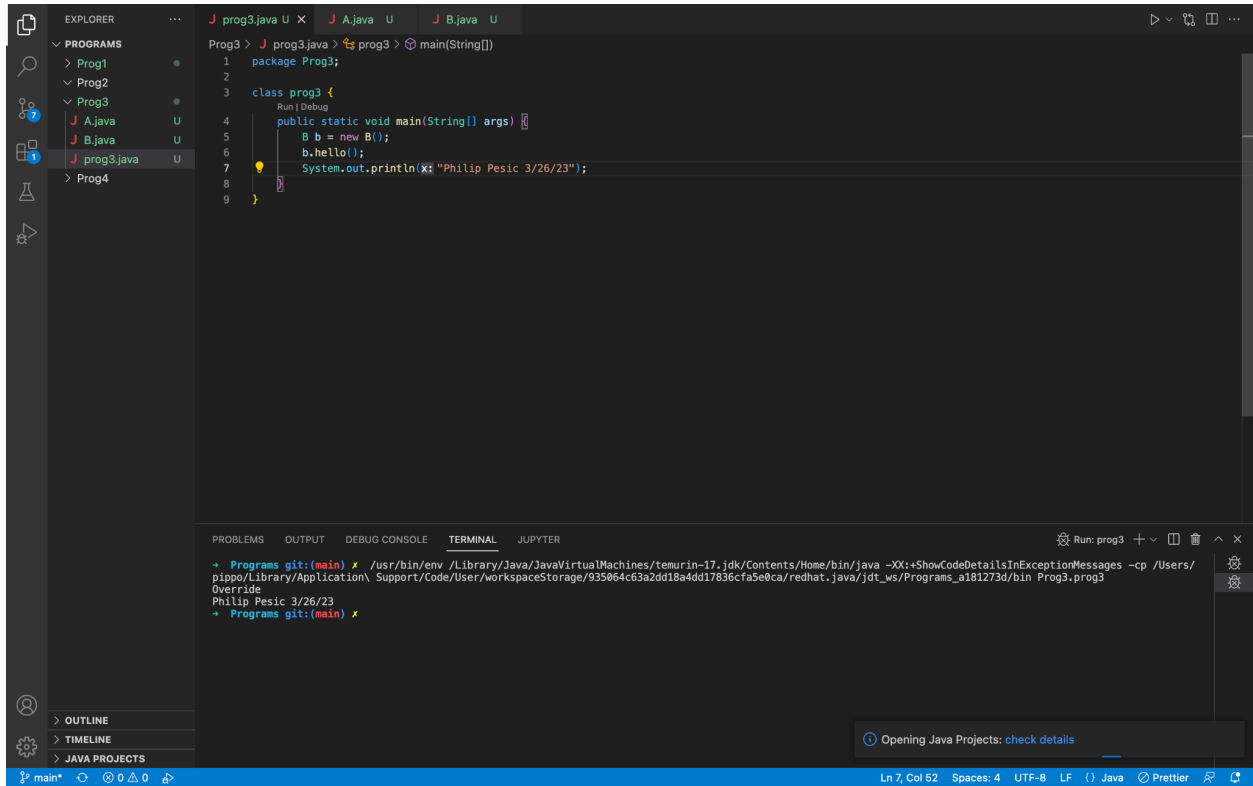


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The screenshot shows an IDE with a dark theme. On the left, the Explorer panel shows a project structure with folders 'Progs' and 'Programs', and files 'A.java', 'B.java', and 'prog3.java'. The main editor displays the code for 'prog3.java':

```
1 package Prog3;
2
3 class prog3 {
4     public static void main(String[] args) {
5         B b = new B();
6         b.hello();
7         System.out.println(x; "Philip Pesic 3/26/23");
8     }
9 }
```

Below the editor, the Terminal panel shows the output of running the program:

```
Programs git:(main) * /usr/bin/env /Library/Java/JavaVirtualMachines/temurin-17.jdk/Contents/Home/bin/java -XX:+ShowCodeDetailsInExceptionMessages -cp /Users/pippo/Library/Application\ Support/Code/User/workspaceStorage/935064c63a2dd18a4dd17836cfa5e8ca/redhat.java/jdt_ws/Programs_a181273d/bin Prog3.prog3
Philip Pesic 3/26/23
Programs git:(main) *
```

A notification at the bottom right says 'Opening Java Projects: check details'.

I learned how to override functions with inheritance