

Philip Pesic

Week 10

March 26 2023

Week 10 Prog 1

Part 1 - Watch videos about inheritance:

<https://www.youtube.com/watch?v=9JpNY-XAseg>

* write a summary

* write and run the code in the video

usefilename: week10YourNamePart1summary

usefilename: week10YourNamePart1code

```
package Prog1;

class prog1 {
    public static void main(String[] args) {
        tuna tunaObj = new tuna();
        tunaObj.eat();
        System.out.println("Philip Pesic 3/26/23");
    }
}

package Prog1;

public class tuna extends potpie {

}

package Prog1;

public class potpie extends food {

}

package Prog1;

public class food {
```

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March 26 2023

Week 10 Prog 1

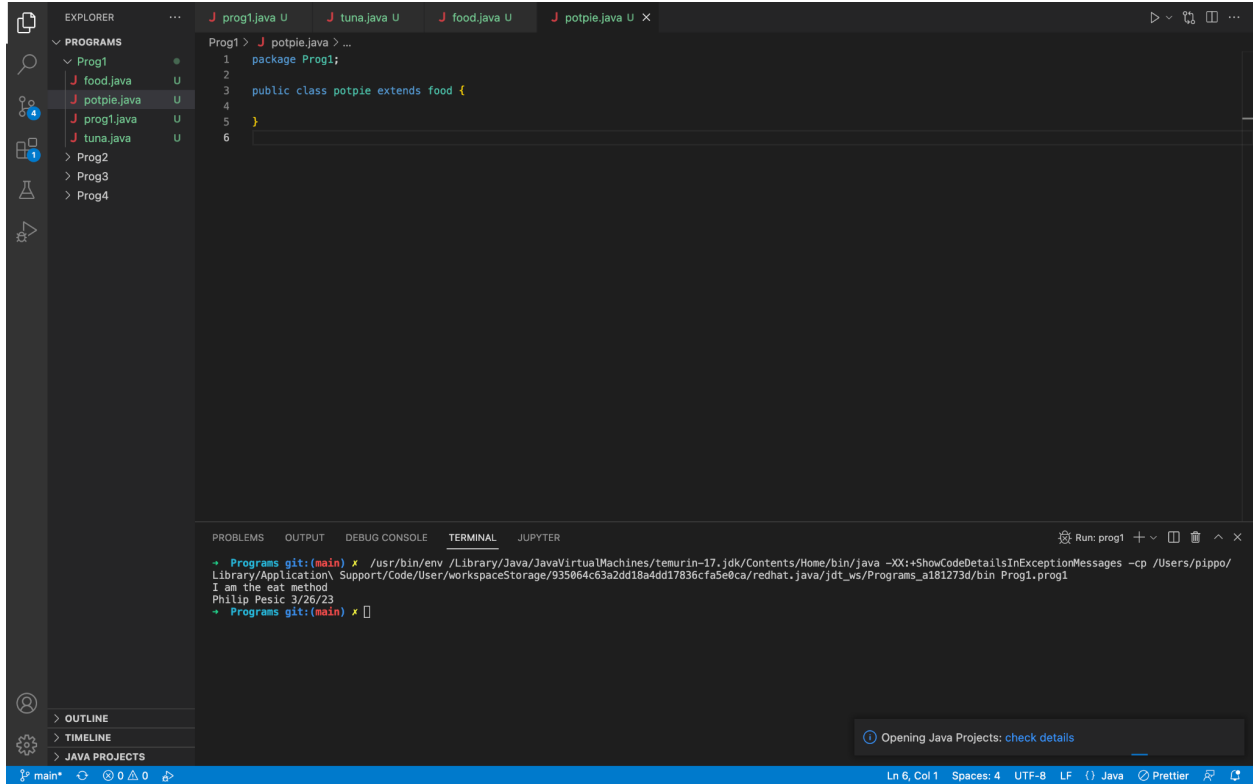
```
public void eat() {  
    System.out.println("I am the eat method");  
}  
}
```

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March 26 2023

Week 10 Prog 1



The screenshot shows an IDE with a dark theme. The Explorer panel on the left shows a project named 'PROGRAMS' with a sub-project 'Prog1'. Inside 'Prog1', there are four Java files: 'food.java', 'potpie.java', 'prog1.java', and 'tuna.java'. The 'potpie.java' file is selected, and its content is displayed in the editor. The code defines a package 'Prog1' and a class 'potpie' that extends 'food'. The class has a method 'eat' that prints 'I am the eat method' and the date 'Philip Pesic 3/26/23'. The terminal at the bottom shows the command to run the program, which successfully executes and prints the output.

```
1 package Prog1;
2
3 public class potpie extends food {
4
5 }
6
```

```
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/935064c63a2dd18a4dd17836cfa5e0ca/redhat.java/jdt_ws/Programs_a181273d/bin Prog1.potpie
I am the eat method
Philip Pesic 3/26/23
Programs git:(main) *
```

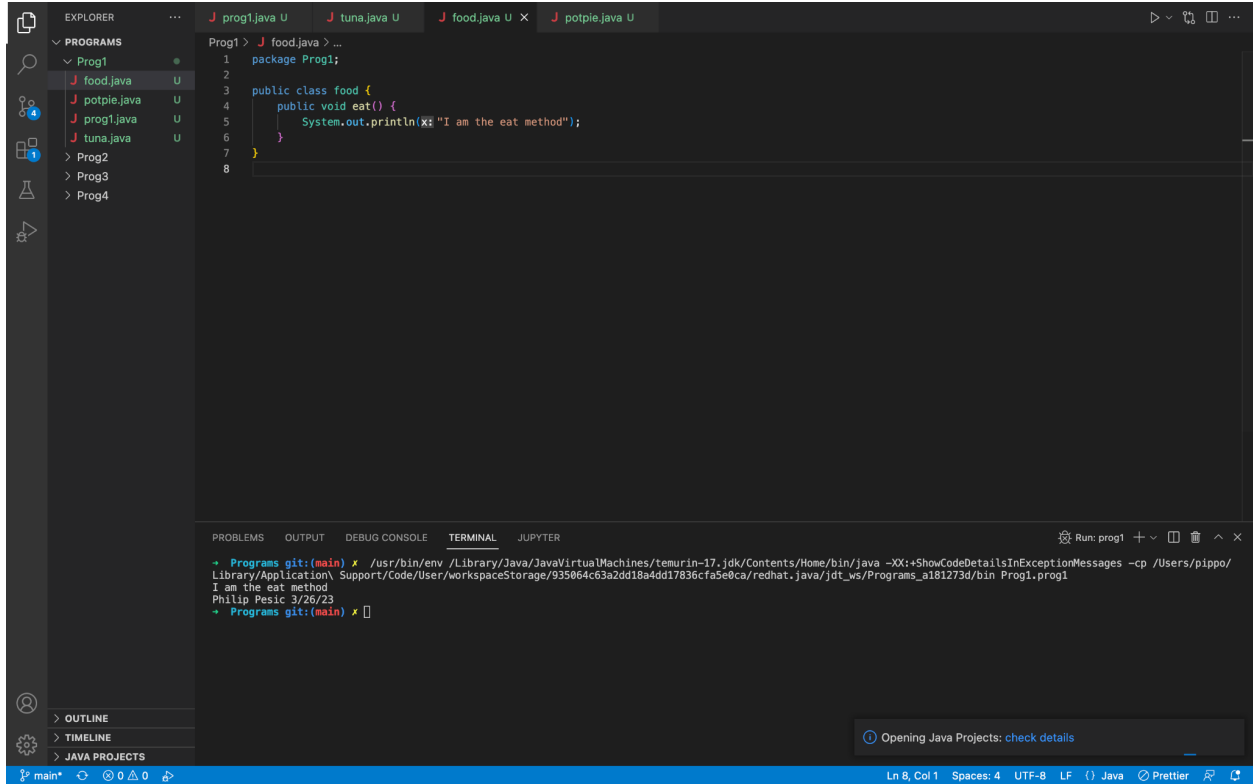
Ln 6, Col 1 Spaces: 4 UTF-8 LF Java Prettier

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The screenshot shows an IDE with a dark theme. The Explorer panel on the left shows a project named 'PROGRAMS' with a sub-project 'Prog1'. Inside 'Prog1', there are four Java files: 'food.java', 'potpie.java', 'prog1.java', and 'tuna.java'. The 'food.java' file is selected and its content is displayed in the editor. The code defines a package 'Prog1' and a class 'food' with an 'eat()' method that prints 'I am the eat method'. The bottom panel shows the 'TERMINAL' tab with the output of running the program. The output shows the command being executed, the classpath, and the printed message 'I am the eat method' followed by the date 'Philip Pesic 3/26/23'. A status bar at the bottom indicates the current line and column (Ln 8, Col 1) and the file encoding (UTF-8).

```
1 package Prog1;
2
3 public class food {
4     public void eat() {
5         System.out.println("I am the eat method");
6     }
7 }
8
```

```
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/935064c63a2dd18a4dd17836cfa5e0ca/redhat.java/jdt_ws/Programs_a181273d/bin Prog1.prog1
I am the eat method
Philip Pesic 3/26/23
Programs git:(main) * []
```

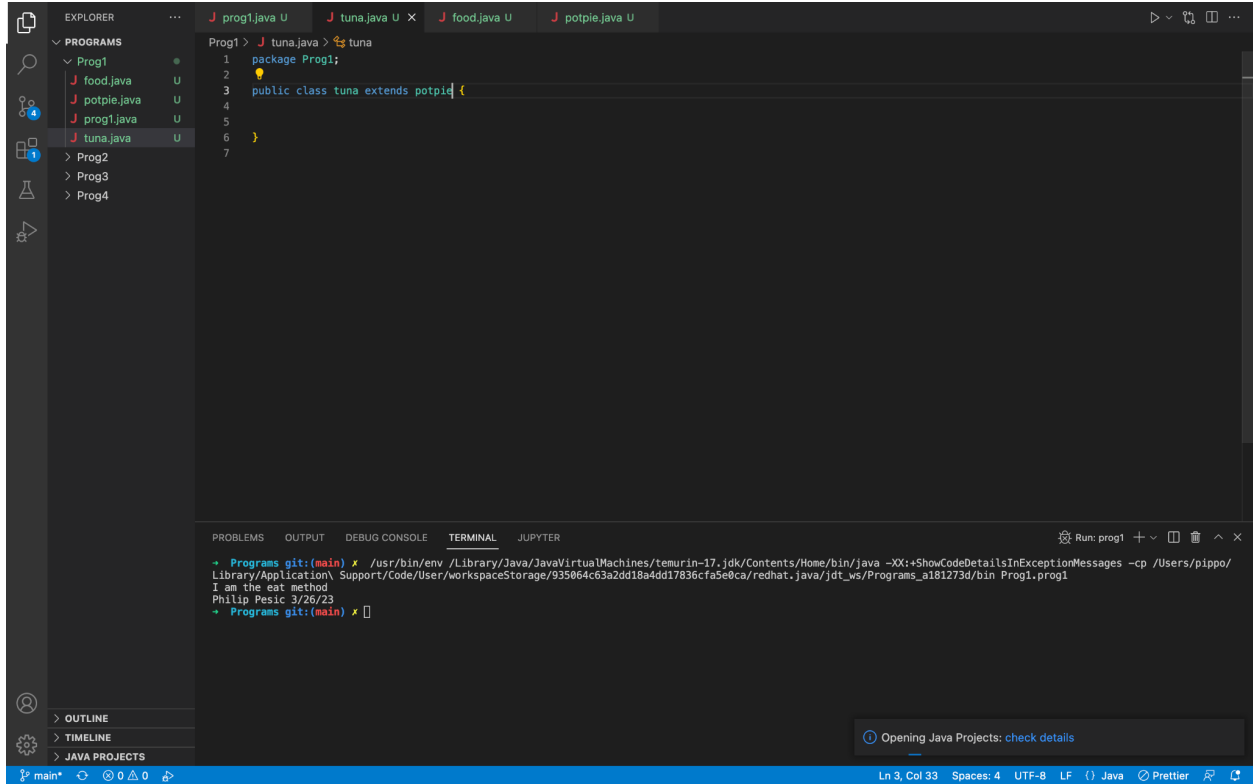
Ln 8, Col 1 Spaces: 4 UTF-8 LF Java Prettier

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Week 10

March 26 2023

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The screenshot shows an IDE with the following components:

- EXPLORER:** A tree view showing a project named 'PROGRAMS' with sub-projects 'Prog1', 'Prog2', 'Prog3', and 'Prog4'. Under 'Prog1', there are four Java files: 'food.java', 'potpie.java', 'prog1.java', and 'tuna.java'. The 'tuna.java' file is selected.
- Editor:** The 'tuna.java' file is open, showing the following code:

```
1 package Prog1;
2
3 public class tuna extends potpie {
4
5
6 }
7
```
- TERMINAL:** The terminal shows the output of running the program. The command executed is `java -XX:+ShowCodeDetailsInExceptionMessages -cp /Users/pippo/Library/Application\ Support/Code/User/workspaceStorage/935064c63a2dd18a4dd17836cfa5e0ca/redhat.java/jdt_ws/Programs_a181273d/bin Prog1.prog1`. The output is:

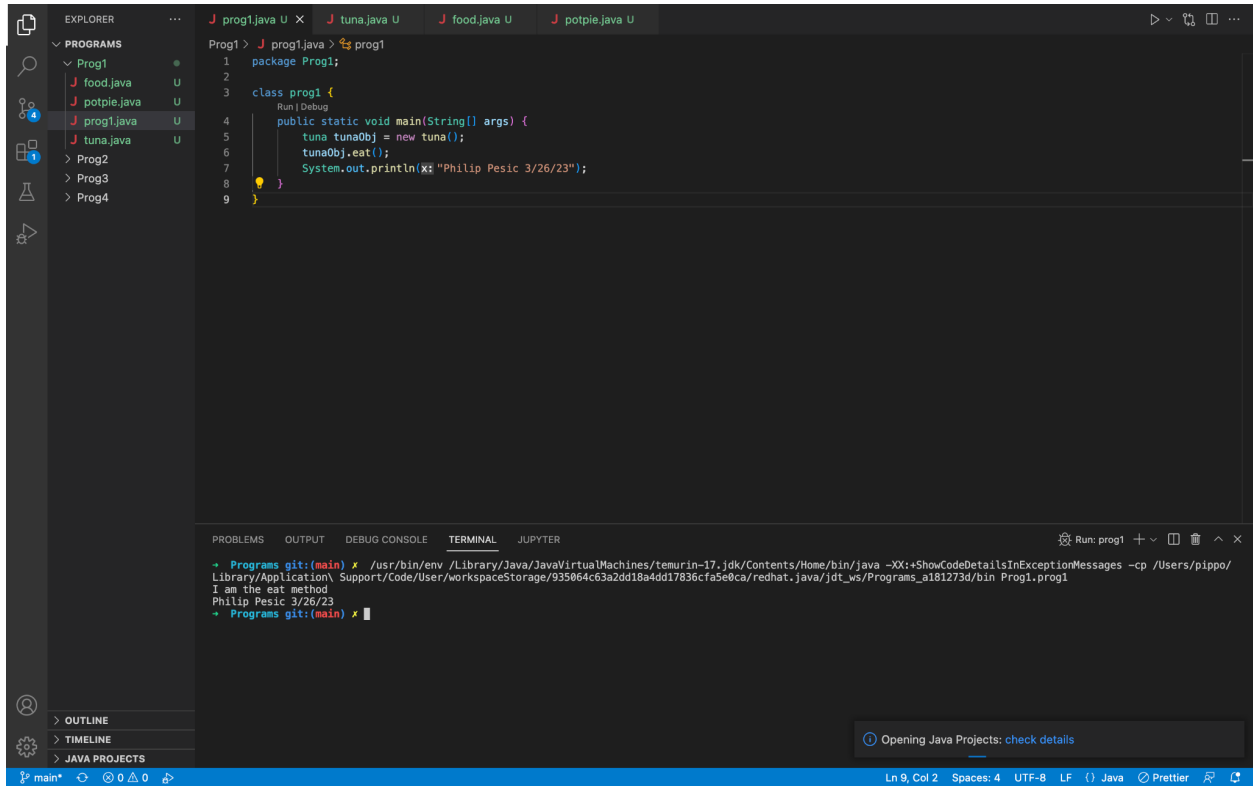
```
→ Programs git:(main) * /usr/bin/env /Library/Java/JavaVirtualMachines/temurin-17.jdk/Contents/Home/bin/java -XX:+ShowCodeDetailsInExceptionMessages -cp /Users/pippo/Library/Application\ Support/Code/User/workspaceStorage/935064c63a2dd18a4dd17836cfa5e0ca/redhat.java/jdt_ws/Programs_a181273d/bin Prog1.prog1
I am the eat method
Philip Pesic 3/26/23
→ Programs git:(main) *
```
- STATUS BAR:** The status bar at the bottom shows 'main*' and 'Ln 3, Col 33 Spaces: 4 UTF-8 LF Java Prettier'.

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Week 10

March 26 2023

Week 10 Prog 1



The screenshot shows an IDE with a project named 'Progs'. The Explorer view on the left shows a folder 'Progs' containing files 'food.java', 'potpie.java', 'prog1.java', and 'tuna.java'. The 'prog1.java' file is selected and its code is visible in the editor. The code defines a 'Prog1' class with a 'main' method that creates a 'tuna' object and calls its 'eat' method. The output of the 'eat' method is 'Philip Pesic 3/26/23'. The Terminal view at the bottom shows the command to run the program and the output, which matches the code's output. A status bar at the bottom indicates the current line is 9, column 2, with 4 spaces, UTF-8 encoding, and LF line endings. The status bar also shows the Java language and the Prettier formatter.

```
1 package Prog1;
2
3 class prog1 {
4     public static void main(String[] args) {
5         tuna tunaObj = new tuna();
6         tunaObj.eat();
7         System.out.println("Philip Pesic 3/26/23");
8     }
9 }
```

Run: prog1

```
→ 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/935064c63a2dd18a4dd17836cfa5e0ca/redhat.java/jdt_ws/Programs_a181273d/bin Prog1.prog1
I am the eat method
Philip Pesic 3/26/23
→ Programs git:(main) *
```

Ln 9, Col 2 Spaces: 4 UTF-8 LF Java Prettier

I learned how to use inheritance