

Day66 Tools
Due Friday 3/1/24

In a single repl, create the following classes in a hierarchy:

Tool class

Attribute: name
Method: `.getName()`, returns the name
Method: `.toString()`, returns "Tool: " and then the name
Method: `void .use()`, prints "ooph"

PowerTool class, extends Tool

Attribute: `String powerSource` (gas or battery)
Method: `.getPowerSource()`
Method: `void .use()`, prints "vroom"
Method: `toString`, uses `super.toString()` to get the parent `toString`, then adds `powerSource`

HandTool class, extends Tool

Attribute: `int weight` (in grams)
Method: `.getWeight()`
Method: `void .use()`, prints "mmph"
Method: `toString`, uses `super.toString()` to get the parent `toString`, then adds `weight`

Write these classes. Make sure your repl compiles, even though it doesn't create or use these classes yet.

Add this line up top:

```
import java.util.ArrayList;
```

Then, in the main method in the Main class, do the following:

1. Create a Tool object. Print it. Use the `.getName()` method. Use the `.use()` method. Print a blank line.
2. Create a PowerTool object. Print it. Use the `.getPowerSource` method. Use the `.use()` method. Print a blank line.
3. Create a HandTool object. Print it. Use the `.getWeight()` method. Use the `.use()` method. Print a blank line.
4. Create an ArrayList that could contain all of these objects. Add all these three objects to it.
5. Use an enhanced for loop to print each Tool, calling the `.use()` method for each tool as you print it.

See sample output on the next page.

Sample output:

Tool: Post Hole Digger
ooph
Post Hole Digger

Tool: Weed Eater, power source: gas
vroom
Weed Eater
gas

Tool: Hammer, weight: 3000
mmph
Hammer
3000

Tool: Post Hole Digger
ooph
Tool: Weed Eater, power source: gas
vroom
Tool: Hammer, weight: 3000
mmph