Net Worth Calculator

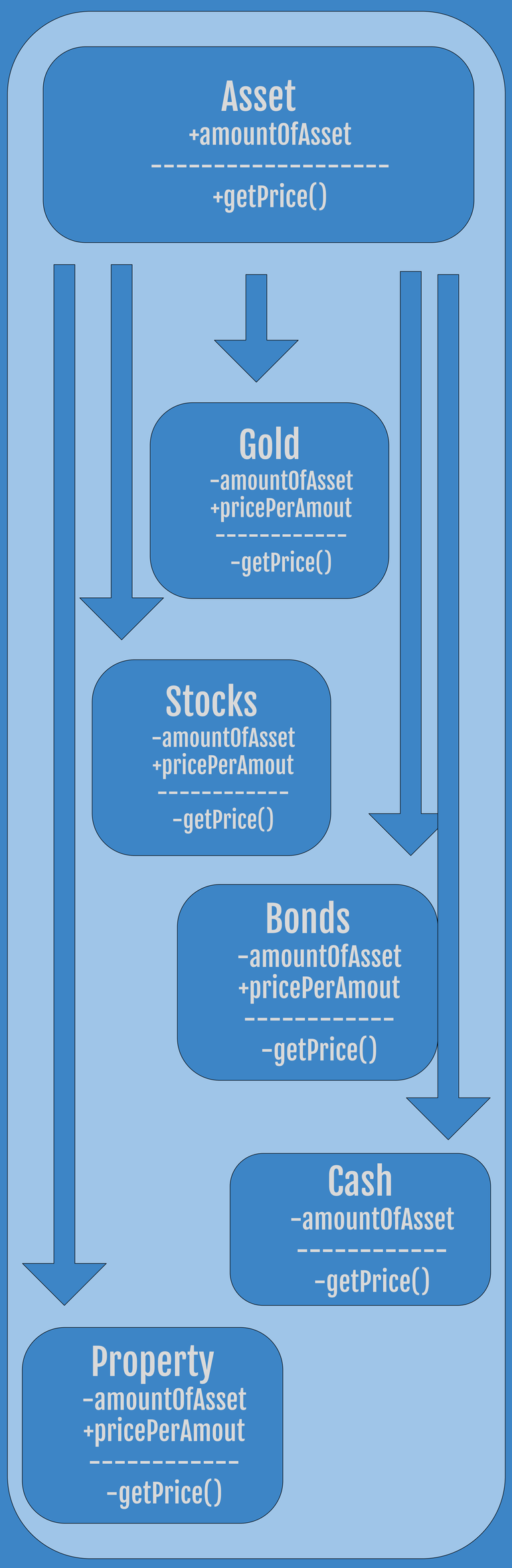
The Problem

We live in a time where our holdings are increasingly diversified. 100 years ago we as a species did not diversify our earnings beyond cash, property and rarely gold. Now, we hold our earnings in stocks, bonds, cash, debit, property, gold, cryptocurrency, and more; it is incredibly difficult to calculate how much everything we own is truly worth.

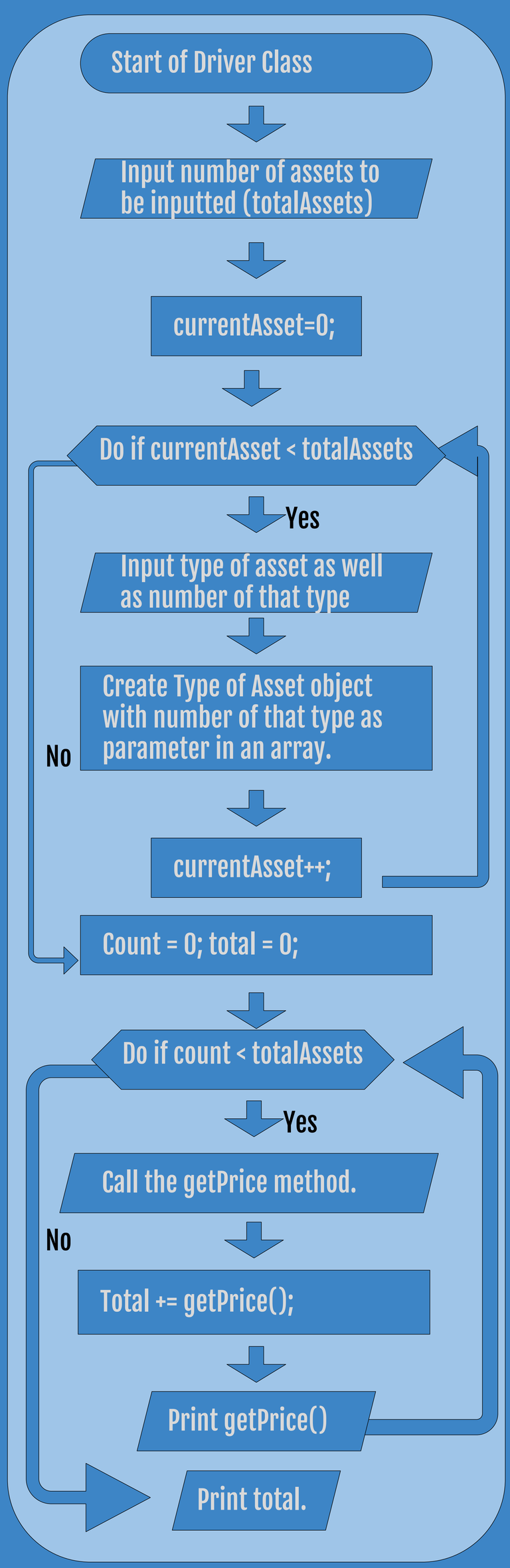
The Solution

To fix this problem, I've made a program where one can input how much of each asset they have, as well as the category of asset it is. A final monetary total will be calculated and outputted as well as the total worth of each subcategory inputted (such as gold and property). This way, one can see exactly how much they are worth monetarily.

Class Hierarchy Diagram



Program Flowchart



Justification of Data Types

```
Asset[] assets = new
Asset[totalAssets];
```

- Why I made assets an Asset array instead of a primitive array.
  - Objects in the array to be able to access methods and primitives specific to Asset class objects.
- Why I made this an asset array and not just a bunch of asset variables.
  - exceptionally spatially inefficient.
    - Would have made programs more challenging to read.
  - Creating Asset objects in real-time for the user would be undoable.
    - User could ask to input hundreds of thousands of assets.
- Num elements = num user assets.
  - filled in order according to the for loop that runs for as many times as there are questions (assets[count[]).

Future Steps

Although the property price includes the "pricePerAmount" variable, that's merely an estimate of what the property is worth. Though, all properties are worth a different amount of money. In the future, I will add a method that will only run when a Property object is added to the assets array that lets the user input the exact value of the property. I will do a similar task with the Stocks and Bonds classes.