

Teller Machine

1. Create a new class that represents a *Teller Machine*.
2. Add a *manufacturer*, *deposits*, *withdrawals*, and *balance* attribute/property to the Teller Machine class:
 - **manufacturer**: indicates the manufacturer name for the teller machine.
 - **deposits**: indicates the total amount that has been deposited into the machine.
 - **withdrawals**: indicates the total amount that has been withdrawn from the machine.
 - **balance**: indicates the net difference between **deposits** and **withdrawals**.
3. Create a constructor that accepts **manufacturer**, **deposits**, and **withdrawals**.
4. Instantiate an object (or objects) in *main()* or *Main()* and use the object(s) to test your methods.
5. Create a method that checks to see if a string, **cardNumber**, is a valid card. The method only returns **true** under the following conditions:
 - if the **cardNumber** begins with a **5** and has 16 digits
 - if the **cardNumber** begins with a **4** and has 13 or 16 digits
 - if the **cardNumber** begins with a **3** and is followed by a **4** or a **7**.
6. Override the *ToString()/toString()* method and have it return **"ATM – {manufacturer} – {balance}"** where **{manufacturer}** and **{balance}**. The {} are placeholders for the actual values. i.e. the values from the object should be shown in the string where the {} are indicated.
7. Implement unit tests to validate the functionality of:
 - the balance calculation
 - the valid card number method
8. In the main program class, within the main method, read in the provided csv file **TellerInput.csv** and use it to populate a list of *Teller Machine* objects.
9. Add up the total balance for all of the teller machines in the list and print it to the screen.