



Write a code segment that makes use of the `Transaction` and `CheckingAccount` classes to do the following:

- Open an account with \$2000 on September 13, 2004.
- Deposit \$100 on November 2, 2004.
- Display the balance in the account on November 3, 2004.

Modify the following code so that it continually prompts the user for an age between 0 and 123. Your code should handle non-numeric input.

```
public static int getAge(String prompt) {  
  
    int age = 0;  
  
    String ans = JOptionPane.showInputDialog(null, prompt);  
  
    age = Integer.parseInt(ans);  
  
    return age;  
}
```

Quizzes



Name:

Show the line of code that will create a `File` object called `inFile` and associate the file `prog1.java` inside the directory `C:\eclipse\cs1020\quiz4` with it.

Implement a class called `Child` that inherits from the `Parent` class and overrides the `methodize()` method so that it displays “Child methodize.”

```
public class Parent {
    protected int num = 2;

    public Parent() {
        System.out.println("Parent_constructor");
    }

    public void methodize() {
        System.out.println("Parent_methodize");
    }

    public int getNumber() {
        System.out.println("Parent_getNumber");
        return num;
    }
}
```



Explain what makes a class an *abstract base class* and what impact that has on how the class is used.

The **Refreshable** interface consists of two methods:

```
// Determine if the Object is current.  
boolean isCurrent ();  
// Update or extend the validity period for this Object  
void refresh ();
```

Suppose that a **static** method, `getRefreshableObject()` from the `Quiz8` class, exists that returns a reference to some kind of object that implements the **Refreshable** interface.

Write a code segment that will check to see if the object is current, and refresh the object if the object is not current.



Create a `ValentineException` class that can be thrown whenever a `GregorianCalendar` object with a date of February 14 is encountered.