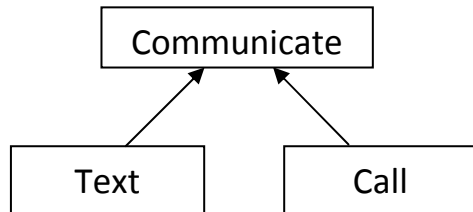


The goal of this assignment is to create three classes that have the following inheritance hierarchy:



**Problem #1** – Create the **Communicate** class. This class will only contain three methods. The **textMe()** method should be an abstract method with nothing returned. The **callMe()** method should be an abstract method with nothing returned. The **talkToMe()** method has no return value but does print “Hello!” when called.

**Problem #2** – Create the **Text** class so that it is a subclass of the **Communicate** class. The Text class overrides the abstract methods found in the Communicate class. It contains a **textMe()** method that prints “will b L8” and a **callMe()** method that prints “No call made, this is a text!”. It also contains a constructor method that sets the texting status (instance variable) to ‘true’.

**Problem #3** – Create the **Call** class so that it is a subclass of the **Communicate** class. The **Call** class overrides the abstract methods found in the **Communicate** class. It contains a **textMe()** method that prints “No text sent, this is a phone call!” and a **callMe()** method that prints “Dialing 555-1234 ... ring ... Hello!”. It also contains a constructor method that sets the callActive status (instance variable) to ‘true’.

**Problem #4** – Verify that you have completed problems #1-3 correctly by creating a communicateMain class that contains the following code in the main method:

```

Text my1stText = new Text();
Call my1stCall = new Call();
System.out.println("Text Class ...");
my1stText.callMe();
my1stText.textMe();
System.out.println("");
System.out.println("Call Class ...");
my1stCall.callMe();
my1stCall.textMe();
  
```

The output should be:

Text Class ...

No call made, this is texting!  
will b L8

Call Class ...

Dialing 555-1234 ... ring ... Hello!  
No text sent, this is a phone call!

**Problem #5** – Experiment a little. Create your own new subclass called Email. Try editing the Email class and the other classes from this assignment so that you have a working version of the following inheritance hierarchy (test by using your communicateMain class and by creating Email objects)

