

# Lab 2

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## Part 1: Book.java

```
package Lab2b;

/*      Comp3111LEx\Lab2b\Book.java          */
public class Book {
    private String chapters[];
    private static final int DEFAULT_CHAPTERS = 10;

    public Book() {
        chapters = new String[DEFAULT_CHAPTERS];
        for (int i = 0; i < chapters.length; i++)
            chapters[i] = "n/a";
    }
    public Book(String argument[]) {
        /* construct the object with an array of chapter names */
        /* PLEASE ADD YOUR CODE HERE */
        chapters = argument;
    }
    public String getChapter(int i) {
        /* return the chapter by the given index */
        /* PLEASE ADD YOUR CODE HERE */
        return chapters[i];
    }
    public String[] getChapters() {
        return chapters;
    }
}
```

## Part2: MobileComputer.java

```
package Lab2c;

/*      Comp3111LEx\Lab2c\MobileComputer.java          */
/*      Inherits from Computer, class library for Lab2 Exercise 3      */

public class MobileComputer extends Computer implements Chargeable {
    private int battery;
    public MobileComputer() {
        secret = "MobileComputer secret";
        battery = 5;
    }
    @Override
```

```
public void work() {  
    if (battery > 0) {  
        System.out.println("It is working on my lap.");  
        battery--;  
    } else  
        System.out.println("Running out of battery");  
}  
@Override  
public void charge() {  
    if (battery < 10)  
        battery++;  
}  
}
```

Explanation:

Chargeable was not implemented in MobileComputer, add implements and @Override to charge() in order to use the Chargeable.