

**Lab 2**  
**100 Points**  
**Sell Sell Sell**  
**Chapters 3-4**  
**edu.wmich.lab2classID**  
**Lab2classID**

In our second lab of the semester we will create an app that allows the user to pick **one of four (4) products or services (inclusive)** priced accordingly.

### **Lab Parameters**

Using **Case Project 4-2 on pages 170-171 in the textbook as a base for this program**, you will create an app that sells four (4) products or services. **You can choose the products or services and the costs, but only choose products or services, not both.**

Do make sure to follow the basic algorithm noted in the case project. **However, significant changes you must make include:**

- The addition of a fourth item
- Your choice of product or service (choose one)
- The costs of each product or service (You choose, but do make them U.S. dollar amounts.)

**In terms of the conditions, the parameters are somewhat different:**

- The user must subscribe/buy **at least 3 and no more than 24 items/months**.
- Use a **customized icon of your own**.
- Use **any theme other than the default one**.

**Additions to the program parameters include:**

- Warn users of mistakes in entry with Toast
- Use a relative layout

**Do make sure to:**

- Incorporate text color controls using hexadecimals
- Manipulate the gravity and margins of controls
- **Use a RadioGroup for the products/services, not a Spinner**
- Make decisions using the correct decision structures
- Round off to the nearest penny with two decimal places

**Important items to note**

- Follow variable and file naming conventions (e.g., MainActivity, activity\_main)
- Self-documentation with variable names is critical
- **Use Android 5.1.1 (API 22, Lollipop) as the minimum SDK on setup**
- Use appropriate size settings
- Use appropriate image types and densities (hdpi)
- **Document every file that you create and/or change**
- Include your classID as appropriate
- Make sure to watch the example lab video

### **Extra Items**

- Customized error messages
- Stop the app from crashing when no data is entered and the user clicks the button

### **Deliverables**

This lab (entire project folder) should be turned in as a .zip file named with your classID and Lab number. For example, if your classID was **bjones4242** (Bubba Jones), the file would be:

**Lab2bjones4242.zip**

Refer to the **Documentation Guide** at for guidance on comments and lab preparation.

**When you are finished, make sure to upload**

**AND**

**submit your lab in eLearning.**