

Project 4-2:

Application title: Car Wash App

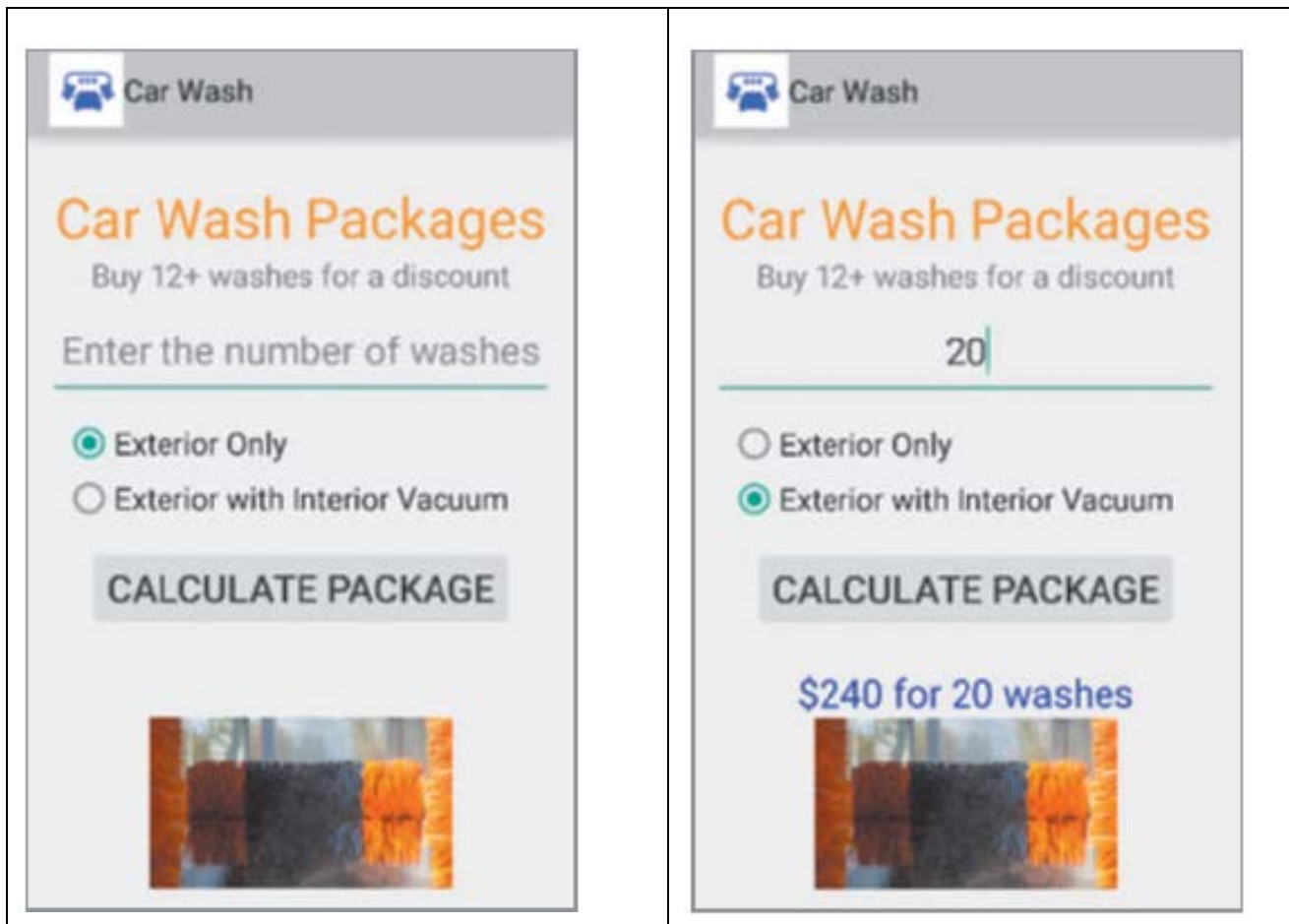
Purpose: Build a car wash app where you can purchase packages for a vehicle.

Algorithms:

1. The opening screen requests the type of car wash package you would like to purchase.
2. The user selects which type of car wash – exterior only or exterior with interior vacuum services. The Car Wash app charges \$8.99 for an exterior wash and \$12.99 for an exterior wash with an interior vacuum for a package of 12 or more car washes.
 - a. If you select less than 12 washes, the charge is \$10.99 for an exterior wash or \$15.99 for an exterior with interior vacuum.
3. When the CALCULATE PACKAGE button is selected, the total price is displayed for the number of car washes purchased.

Conditions:

- Display an ImageView control (carwash.png).
- Only one RadioButton control can be selected.
- A toast message should pop up when the user enters less than 12 washes that they must buy 12 washes to receive a discount.



Strings.xml

```
<resources>  
  <string name="app_name">Car Wash</string>  
  <string name="action_settings">Settings</string>  
  <string name="txtTitle">Car Wash Packages</string>  
  <string name="txtTitle2"> Buy 12+ washes for a discount</string>  
  <string name="hint">Enter the number of washes</string>  
  <string name="radExterior">Exterior Only</string>  
  <string name="radBoth">Exterior with Interior Vacuum</string>  
  <string name="btnConvert">Calculate Package</string>  
  <string name="description">Car Wash image</string>  
  <string name="result">Result</string>  
  
</resources>
```

Steps to a successful App.

1. Don't forget to create your Keys and Values in the Strings.xml file
2. Don't forget to link the Keys and Values to their actual Components in the Properties
3. All the design happens in the activity_main.xml
4. All the code for the Events (i.e. Buttons) is done on the MainActivity.java file
5. All pictures and media go inside the Drawable folder
6. To Import classes use Alt-Enter
7. Save and test your work frequently
8. Sync your work frequently

```
public class MainActivity extends ActionBarActivity {  
    int exteriorNotPackage = 10;  
    int exteriorPackage = 8;  
    int bothNotPackage= 15;  
    int bothPackage= 12;  
    int washes;  
    int cost;
```

```
@Override
```

```
protected void onCreate(Bundle savedInstanceState) {
```

```
    super.onCreate(savedInstanceState);
```

```
    setContentView(R.layout.activity_main);
```

```
    getSupportActionBar().setDisplayHomeAsUpEnabled(true);
```

```
    getSupportActionBar().setLogo(R.drawable.ic_launcher);
```

```
    getSupportActionBar().setDisplayUseLogoEnabled(true);
```

```
    final EditText number = (EditText) findViewById(R.id.txtWash);
```

```
    final RadioButton Exterior = (RadioButton) findViewById(R.id.radExterior);
```

```
    final RadioButton Both = (RadioButton) findViewById(R.id.radBoth);
```

```
    final TextView result = (TextView) findViewById(R.id.txtResult);
```

```
    Button convert = (Button) findViewById(R.id.btnCalculate);
```

```
    convert.setOnClickListener(new View.OnClickListener() {
```

```
        @Override
```

```
        public void onClick(View v) {
```

```
            washes= Integer.parseInt(number.getText().toString());
```

```
            if (Exterior.isChecked()) {
```

```
                if (washes >= 12) {
```

```
                    cost = washes * exteriorPackage;
```

```
                } else {
```

```
                    cost = washes * exteriorNotPackage;
```

```
                Toast.makeText(MainActivity.this, "Purchase more than 12 for a discount", Toast.LENGTH_LONG).show();
```

```
    }  
  }  
  if (Both.isChecked()) {  
    if (washes >= 12) {  
      cost = washes * bothPackage;  
  
    } else {  
      cost = washes * bothNotPackage;  
  
      Toast.makeText(MainActivity.this, "Purchase more than 12 for a discount", Toast.LENGTH_LONG).show();  
    }  
  }  
  result.setText("$" + cost + " for " + washes + " washes");  
}  
});  
}  
}
```