**package** com.example.android.justjava;  
  
**import** android.content.Intent;  
**import** android.net.Uri;  
**import** android.os.Bundle;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.view.View;  
**import** android.widget.CheckBox;  
**import** android.widget.EditText;  
**import** android.widget.TextView;  
**import** android.widget.Toast;  
  
*/\*\*  
 \* This app displays an order form to order coffee.  
 \*/***public class** MainActivity **extends** AppCompatActivity {  
  
 **int quantity** = 0;  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate( savedInstanceState );  
 setContentView( R.layout.***activity\_main*** );  
  
 }  
  
 */\*\*  
 \* This method is called when the order button is clicked.  
 \*/* **public void** submitOrder(View v) {  
 EditText nameField = (EditText) findViewById( R.id.***name\_field*** );  
 String name = nameField.getText().toString();  
 *// Figure out if the user wants whipped cream topping* CheckBox whippedCreamCheckBox = (CheckBox) findViewById( R.id.***whipped\_cream\_checkbox*** );  
 **boolean** hasWhippedCream = whippedCreamCheckBox.isChecked();  
  
 *// Figure out if the user wants chocolate topping* CheckBox chocolateCheckBox = (CheckBox) findViewById( R.id.***chocolate\_checkbox*** );  
 **boolean** hasChocolate = chocolateCheckBox.isChecked();  
  
 *// Calculate the price* **int** price = calculatePrice( hasWhippedCream, hasChocolate );  
  
 *// Display the order summary on the screen* String priceMessage = createOrderSummary( name, price, hasWhippedCream, hasChocolate );  
 Intent intent = **new** Intent( Intent.***ACTION\_SENDTO*** );  
 {  
 intent.setData( Uri.*parse*( **"mailto:"** ) ); *// only email apps should handle this* intent.putExtra( Intent.***EXTRA\_SUBJECT***, **"Just Java order for"** + name );  
 intent.putExtra( Intent.***EXTRA\_TEXT***, priceMessage );  
 **if** (intent.resolveActivity( getPackageManager() ) != **null**) {  
 startActivity( intent );  
 }  
 }  
 }  
  
 */\*\*  
 \* Calculates the price of the order.  
 \*  
 \** ***@param addWhippedCream*** *is whether or not the user wants Whipped cream  
 \** ***@param addChocolate*** *is whether or not the user wants chocolate  
 \** ***@return*** *total price  
 \*/* **private int** calculatePrice(**boolean** addWhippedCream, **boolean** addChocolate) {  
 *// Price of 1 cup of coffee* **int** basePrice = 20;  
  
 *// Add ₹5 if the user wants Whipped cream* **if** (addWhippedCream) {  
 basePrice = basePrice + 5;  
 }  
  
 *// Add ₹10 if the user wants Chocolate* **if** (addChocolate) {  
 basePrice = basePrice + 10;  
 }  
  
 *// Calculate the total orer price by multiplying by quantity* **return quantity** \* basePrice;  
 }  
  
 */\*\*  
 \* Create summary of the order  
 \*  
 \** ***@param name*** *of the customer  
 \** ***@param price*** *of the order  
 \** ***@param addWhippedCream*** *is whether or not the user wants whipped cream topping  
 \** ***@param addChocolate*** *is whether or not to add chocolate to the coffee  
 \** ***@return*** *text summary  
 \*/* **private** String createOrderSummary(String name, **int** price, **boolean** addWhippedCream, **boolean** addChocolate) {  
 String priceMessage = **"Name : "** + name;  
 priceMessage += **"\nAdd whipped cream ? "** + addWhippedCream;  
 priceMessage += **"\nAdd chocolate ? "** + addChocolate;  
 priceMessage += **"\nQuantity: "** + **quantity**;  
 priceMessage += **"\nTotal: ₹"** + price;  
 priceMessage += **"\n"**+ getString(R.string.***thank\_you***);  
 **return** priceMessage;  
 }  
  
  
 */\*\*  
 \* This method is called when the minus button is clicked.  
 \*/* **public void** decrement(View view) {  
 **if** (**quantity** == 1) {  
 Toast.*makeText*( **this**, **"You can not have less than one cup of coffee!"**, Toast.***LENGTH\_SHORT*** ).show();  
 **return**;  
 }  
 **quantity** = **quantity** - 1;  
 TextView quantityTextView = (TextView) findViewById( R.id.***quantity\_text\_view*** );  
 quantityTextView.setText( **""** + **quantity** );  
 displayQuantity( **quantity** );  
 }  
  
 */\*\*  
 \* This method is called when the plus button is clicked.  
 \*/* **public void** increment(View view) {  
 **if** (**quantity** == 100) {  
 Toast.*makeText*( **this**, **"You can not have more than 100 cups of coffees!"**, Toast.***LENGTH\_SHORT*** ).show();  
 **return**;  
 }  
 **quantity** = **quantity** + 1;  
 TextView quantityTextView = (TextView) findViewById( R.id.***quantity\_text\_view*** );  
 quantityTextView.setText( **""** + **quantity** );  
 displayQuantity( **quantity** );  
 }  
  
  
 */\*\*  
 \* This method displays the given quantity value on the screen.  
 \*/* **private void** displayQuantity(**int** numberOfCoffee) {  
 TextView quantityTextView = (TextView) findViewById( R.id.***quantity\_text\_view*** );  
 quantityTextView.setText( **""** + numberOfCoffee );  
 }  
  
}