MainActivity.java

**package** com.example.pract4siddhi;  
  
**import** androidx.appcompat.app.AppCompatActivity;  
  
  
**import** android.os.Bundle;  
**import** android.view.ContextMenu;  
**import** android.view.Menu;  
**import** android.view.MenuInflater;  
**import** android.view.MenuItem;  
**import** android.view.View;  
**import** android.widget.Button;  
**import** android.widget.Toast;  
  
**import** java.util.ArrayList;  
  
**public class** MainActivity **extends** AppCompatActivity {  
 **public int cost** = 0;  
 **public static** ArrayList<CharSequence> *cart*=**new** ArrayList<CharSequence>();  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
 Button b1 = (Button) findViewById(R.id.***b1***);  
 registerForContextMenu(b1);  
 }  
  
 *//options menu* @Override  
 **public boolean** onCreateOptionsMenu(Menu menu) {  
 MenuInflater inflater = getMenuInflater();  
 inflater.inflate(R.menu.***menu\_activity***, menu);  
 **return true**;  
 }  
  
 @Override  
 **public boolean** onOptionsItemSelected(MenuItem item) {  
 **switch** (item.getItemId()) {  
 **case** R.id.***i1***:  
 getPrice(700);  
 Toast.*makeText*(**this**, **"Selected Item: "** + item.getTitle(), Toast.***LENGTH\_SHORT***).show();  
 *cart*.add(item.getTitle());  
 **return true**;  
 **case** R.id.***i2***:  
 getPrice(500);  
 Toast.*makeText*(**this**, **"Selected Item: "** + item.getTitle(), Toast.***LENGTH\_SHORT***).show();  
 *cart*.add(item.getTitle());  
 **return true**;  
 **case** R.id.***i3***:  
 getPrice(900);  
 Toast.*makeText*(**this**, **"Selected Item: "** + item.getTitle(), Toast.***LENGTH\_SHORT***).show();  
 *cart*.add(item.getTitle());  
 **return true**;  
 **case** R.id.***i4***:  
 getPrice(1000);  
 Toast.*makeText*(**this**, **"Selected Item: "** + item.getTitle(), Toast.***LENGTH\_SHORT***).show();  
 *cart*.add(item.getTitle());  
 **return true**;  
 **case** R.id.***i5***:  
 getPrice(1500);  
 Toast.*makeText*(**this**, **"Selected Item: "** + item.getTitle(), Toast.***LENGTH\_SHORT***).show();  
 *cart*.add(item.getTitle());  
 **return true**;  
 **case** R.id.***i6***:  
 getPrice(3000);  
 Toast.*makeText*(**this**, **"Selected Item: "** + item.getTitle(), Toast.***LENGTH\_SHORT***).show();  
 *cart*.add(item.getTitle());  
 **return true**;  
 **case** R.id.***i7***:  
 getPrice(50000);  
 Toast.*makeText*(**this**, **"Selected Item: "** + item.getTitle(), Toast.***LENGTH\_SHORT***).show();  
 *cart*.add(item.getTitle());  
 **return true**;  
 **case** R.id.***i8***:  
 getPrice(15000);  
 Toast.*makeText*(**this**, **"Selected Item: "** + item.getTitle(), Toast.***LENGTH\_SHORT***).show();  
 *cart*.add(item.getTitle());  
 **return true**;  
 **case** R.id.***i9***:  
 getPrice(2000);  
 Toast.*makeText*(**this**, **"Selected Item: "** + item.getTitle(), Toast.***LENGTH\_SHORT***).show();  
 *cart*.add(item.getTitle());  
 **return true**;  
 **case** R.id.***i10***:  
 getPrice(8000);  
 Toast.*makeText*(**this**, **"Selected Item: "** + item.getTitle(), Toast.***LENGTH\_SHORT***).show();  
 *cart*.add(item.getTitle());  
 **return true**;  
 **case** R.id.***i11***:  
 getPrice(25000);  
 Toast.*makeText*(**this**, **"Selected Item: "** + item.getTitle(), Toast.***LENGTH\_SHORT***).show();  
 *cart*.add(item.getTitle());  
 **return true**;  
 **case** R.id.***i12***:  
 getPrice(10000);  
 Toast.*makeText*(**this**, **"Selected Item: "** + item.getTitle(), Toast.***LENGTH\_SHORT***).show();  
 *cart*.add(item.getTitle());  
 **return true**;  
 **default**:  
 **return super**.onOptionsItemSelected(item);  
 }  
 }  
  
 **public void** getPrice(**int** price) {  
 **cost** = **cost** + price;  
 }  
  
 */\*@Override  
 public boolean onMenuItemClick(MenuItem menuItem) {  
 return false;  
 }\*/  
  
 /\*@Override  
 public boolean onMenuItemClick(MenuItem item) {  
 Toast.makeText(this, "Selected Item: " + item.getTitle(), Toast.LENGTH\_SHORT).show();  
 return false;  
 }\*/* @Override  
 **public void** onCreateContextMenu(ContextMenu menu, View v, ContextMenu.ContextMenuInfo menuInfo) {  
 **super**.onCreateContextMenu(menu, v, menuInfo);  
 menu.setHeaderTitle(**"Context Menu"**);  
 menu.add(0, v.getId(), 0, **"Show"**);  
 menu.add(0, v.getId(), 0, **"Clear"**);  
 }  
  
 @Override  
 **public boolean** onContextItemSelected(MenuItem item) {  
 **if** (item.getTitle().equals(**"Show"**)) {  
 StringBuilder sb = **new** StringBuilder(**"Your cart contains:"**);  
 **for** (**int** i = 0; i < *cart*.size(); i++) {  
 sb.append(*cart*.get(i));  
 }  
 sb.append(**"and total cost is Rs."** + **cost**);  
 Toast.*makeText*(**this**, sb.toString(), Toast.***LENGTH\_LONG***).show();  
 }  
 **if** (item.getTitle().equals(**"Clear"**)) {  
 *cart*.clear();  
 Toast.*makeText*(**this**, **"Cart cleared"** + item.getTitle(), Toast.***LENGTH\_SHORT***).show();  
 }  
 **return true**;  
 }  
  
}

menu\_activity.xml

*<?***xml version="1.0" encoding="utf-8"***?>*<**menu xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:android="http://schemas.android.com/apk/res/android"**>  
  
 <**item  
 android:title="Clothes"  
 android:id="@+id/it1"  
 android:icon="@drawable/cloth"**>  
 <**group  
 android:id="@+id/g1"**>  
 <**menu**>  
 <**item  
 android:title="Shirt - Rs.700"  
 android:id="@+id/i1"**/>  
 <**item  
 android:title="T-shirt - Rs.500"  
 android:id="@+id/i2"**/>  
 <**item  
 android:title="Jeans - Rs.900"  
 android:id="@+id/i3"**/>  
 </**menu**>  
 </**group**>  
 </**item**>  
  
 <**item  
 android:title="Shoes"  
 android:id="@+id/it2"  
 android:icon="@drawable/shoes"**>  
 <**group  
 android:id="@+id/g2"**>  
 <**menu**>  
 <**item  
 android:title="Casual shoes - Rs.1000"  
 android:id="@+id/i4"**/>  
 <**item  
 android:title="Formal shoes - Rs.1500"  
 android:id="@+id/i5"**/>  
 <**item  
 android:title="Sports shoes - Rs.3000"  
 android:id="@+id/i6"**/>  
 </**menu**>  
 </**group**>  
 </**item**>  
  
 <**item  
 android:title="Other electronic gadgets"  
 android:id="@+id/it3"  
 android:icon="@drawable/gadgets"**>  
 <**group  
 android:id="@+id/g3"**>  
 <**menu**>  
 <**item  
 android:title="Tv - Rs.50000"  
 android:id="@+id/i7"**/>  
 <**item  
 android:title="Refrigerator - Rs.15000"  
 android:id="@+id/i8"**/>  
 <**item  
 android:title="Smart watch - Rs.2000"  
 android:id="@+id/i9"**/>  
 </**menu**>  
 </**group**>  
 </**item**>  
  
 <**item  
 android:title="Mobiles"  
 android:id="@+id/it4"  
 android:icon="@drawable/mobiles"**>  
 <**group  
 android:id="@+id/g4"**>  
 <**menu**>  
 <**item  
 android:title="Samsung - Rs.8000"  
 android:id="@+id/i10"**/>  
 <**item  
 android:title="Apple - Rs.25000"  
 android:id="@+id/i11"**/>  
 <**item  
 android:title="Redmi - Rs.10000"  
 android:id="@+id/i12"**/>  
 </**menu**>  
 </**group**>  
 </**item**>  
  
</**menu**>

Activity\_main.xml

*<?***xml version="1.0" encoding="utf-8"***?>*<**LinearLayout  
 xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".MainActivity"**>  
  
 <**Button  
 android:id="@+id/b1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Cart"**/>  
</**LinearLayout**>