**PR-3**

**3. Develop a program to display all the data types in object-oriented programming using Frame layout.**

**XML Code**

<?xml version="1.0" encoding="utf-8"?>  
<FrameLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".MainActivity">  
  
 <TextView  
 android:id="@+id/title"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginLeft="40dp"  
 android:layout\_marginTop="90dp"  
 android:layout\_marginBottom="12dp"  
 android:text="Data Types in object-oriented programming"  
 android:textSize="24sp"  
 android:textStyle="bold" />  
  
 <LinearLayout  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:orientation="vertical"  
 android:layout\_gravity="center">  
  
 <TextView  
 android:id="@+id/primitiveHeader"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Primitive Data Types"  
 android:textStyle="bold"  
 android:textSize="20sp"  
 android:layout\_marginBottom="10dp"/>  
  
 <TextView  
 android:id="@+id/textInteger"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Integer (int):"  
 android:textSize="18sp"  
 android:layout\_marginBottom="6dp"/>  
  
 <TextView  
 android:id="@+id/textFloat"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Float (float):"  
 android:textSize="18sp"  
 android:layout\_marginBottom="6dp"/>  
  
 <TextView  
 android:id="@+id/textBoolean"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Boolean (boolean):"  
 android:textSize="18sp"  
 android:layout\_marginBottom="6dp"/>  
  
 <TextView  
 android:id="@+id/textString"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="String (String):"  
 android:textSize="18sp"  
 android:layout\_marginBottom="20dp"/>  
  
 <TextView  
 android:id="@+id/collectionHeader"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Collection Data Types"  
 android:textStyle="bold"  
 android:textSize="20sp"  
 android:layout\_marginBottom="10dp"/>  
  
 <TextView  
 android:id="@+id/textList"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="List (List):"  
 android:textSize="18sp"  
 android:layout\_marginBottom="6dp"/>  
  
 <TextView  
 android:id="@+id/textSet"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Set (Set):"  
 android:textSize="18sp"  
 android:layout\_marginBottom="6dp"/>  
  
 <TextView  
 android:id="@+id/textMap"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Map (Map):"  
 android:textSize="18sp"  
 android:layout\_marginBottom="20dp"/>  
  
 <TextView  
 android:id="@+id/userDefinedHeader"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="User-Defined Data Types"  
 android:textStyle="bold"  
 android:textSize="20sp"  
 android:layout\_marginBottom="10dp"/>  
  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Classes (e.g., MyClass)"  
 android:textSize="18sp"  
 android:layout\_marginBottom="6dp"/>  
  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Objects (Instances of Classes)"  
 android:textSize="18sp"/>  
  
 </LinearLayout>  
  
</FrameLayout>