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| **Name: Jal Bafana** | **Roll no: K005** |
| **Class: Btech. Cyber Security (Sem-4)** | **Batch: K1** |
| **Date of Experiment: 01.01.2025** | **Date of Submission: 01.01.2025** |

**Practice lab MAD**

<?xml version="1.0" encoding="utf-8"?>  
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent">  
  
 <ListView  
 android:id="@+id/contactListView"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent" />  
</RelativeLayout>

package com.example.k005\_contact\_page;  
  
import android.content.Intent;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.AdapterView;  
import android.widget.ArrayAdapter;  
import android.widget.ListView;  
import android.widget.Toast;  
import androidx.appcompat.app.AppCompatActivity;  
  
import java.util.ArrayList;  
  
public class MainActivity extends AppCompatActivity {  
  
 private ListView contactListView;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 contactListView = findViewById(R.id.*contactListView*);  
  
 // Dummy contacts  
 ArrayList<com.example.k005\_contact\_page.Contact> contacts = new ArrayList<>();  
 contacts.add(new com.example.k005\_contact\_page.Contact(R.drawable.*img*, "Jal Bafana", "9725498430", "pani@gmail.com"));  
 contacts.add(new com.example.k005\_contact\_page.Contact(R.drawable.*img\_1*, "Arjun Mehta", "9265598734", "juicy@gmail.com"));  
 contacts.add(new com.example.k005\_contact\_page.Contact(R.drawable.*img\_1*, "Dakshita Galotra", "8080419845", "kumbkaran@gmail.com"));  
 contacts.add(new com.example.k005\_contact\_page.Contact(R.drawable.*img\_3*, "Rhea Chavan", "6983590870", "dhobighatat@gmail.com"));  
 contacts.add(new com.example.k005\_contact\_page.Contact(R.drawable.*img\_1*, "Rajpreet Khurana", "970956489", "pajji@gmail.com"));  
 contacts.add(new com.example.k005\_contact\_page.Contact(R.drawable.*img\_5*, "Prakhar Mehta", "8879056789", "pathar@gmail.com"));  
 contacts.add(new com.example.k005\_contact\_page.Contact(R.drawable.*img\_5*, "Shivansh Jindal", "9987698769", "billo@gmail.com"));  
 contacts.add(new com.example.k005\_contact\_page.Contact(R.drawable.*img\_7*, "Aryan Mathre", "9089349875", "goat@gmail.com"));  
 contacts.add(new com.example.k005\_contact\_page.Contact(R.drawable.*img\_3*, "Saara Bait", "8709096784", "baited@gmail.com"));  
  
  
 // Create and set the custom adapter for the ListView  
 ContactAdapter contactAdapter = new ContactAdapter(this, contacts);  
 contactListView.setAdapter(contactAdapter);  
  
 // Set an item click listener to navigate to screen 2  
 contactListView.setOnItemClickListener(new AdapterView.OnItemClickListener() {  
 @Override  
 public void onItemClick(AdapterView<?> parent, View view, int position, long id) {  
 // Get the selected contact  
 com.example.k005\_contact\_page.Contact selectedContact = contacts.get(position);  
  
 // Create an intent to navigate to the second screen (ContactDetailsActivity)  
 Intent intent = new Intent(MainActivity.this, ContactDetailsActivity.class);  
 intent.putExtra("contact\_image", selectedContact.getImage());  
 intent.putExtra("contact\_name", selectedContact.getName());  
 intent.putExtra("contact\_number", selectedContact.getPhoneNumber());  
 intent.putExtra("contact\_email", selectedContact.getEmail());  
 startActivity(intent);  
 }  
 });  
 }  
}

package com.example.k005\_contact\_page;  
  
public class Contact {  
 private int image;  
 private String name;  
 private String phoneNumber;  
 private String email;  
  
 public Contact(int image, String name, String phoneNumber, String email) {  
 this.image = image;  
 this.name = name;  
 this.phoneNumber = phoneNumber;  
 this.email = email;  
 }  
  
 public int getImage() {  
 return image;  
 }  
  
 public String getName() {  
 return name;  
 }  
  
 public String getPhoneNumber() {  
 return phoneNumber;  
 }  
  
 public String getEmail() {  
 return email;  
 }  
}

package com.example.k005\_contact\_page;  
  
import android.content.Context;  
import android.view.LayoutInflater;  
import android.view.View;  
import android.view.ViewGroup;  
import android.widget.ImageView;  
import android.widget.TextView;  
import android.widget.BaseAdapter;  
  
import java.util.ArrayList;  
  
public class ContactAdapter extends BaseAdapter {  
  
 private Context context;  
 private ArrayList<Contact> contacts;  
  
 public ContactAdapter(Context context, ArrayList<Contact> contacts) {  
 this.context = context;  
 this.contacts = contacts;  
 }  
  
 @Override  
 public int getCount() {  
 return contacts.size();  
 }  
  
 @Override  
 public Object getItem(int position) {  
 return contacts.get(position);  
 }  
  
 @Override  
 public long getItemId(int position) {  
 return position;  
 }  
  
 @Override  
 public View getView(int position, View convertView, ViewGroup parent) {  
 if (convertView == null) {  
 convertView = LayoutInflater.*from*(context).inflate(R.layout.*contact\_item*, parent, false);  
 }  
  
 Contact contact = contacts.get(position);  
  
 ImageView imageView = convertView.findViewById(R.id.*contactImageView*);  
 TextView nameTextView = convertView.findViewById(R.id.*contactNameTextView*);  
  
 imageView.setImageResource(contact.getImage());  
 nameTextView.setText(contact.getName());  
  
 return convertView;  
 }  
}

<?xml version="1.0" encoding="utf-8"?>  
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="horizontal"  
 android:padding="16dp">  
  
 <ImageView  
 android:id="@+id/contactImageView"  
 android:layout\_width="50dp"  
 android:layout\_height="50dp"  
 android:layout\_marginEnd="16dp"  
 android:src="@drawable/ic\_launcher\_background" />  
  
 <TextView  
 android:id="@+id/contactNameTextView"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Contact Name"  
 android:textSize="18sp"  
 android:gravity="center\_vertical" />  
  
</LinearLayout>

package com.example.k005\_contact\_page;  
  
import android.os.Bundle;  
import android.widget.ImageView;  
import android.widget.TextView;  
import androidx.appcompat.app.AppCompatActivity;  
  
public class ContactDetailsActivity extends AppCompatActivity {  
  
 private ImageView contactImageView;  
 private TextView contactNameTextView, contactNumberTextView, contactEmailTextView;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_contact\_details*);  
  
 contactImageView = findViewById(R.id.*contactImageView*);  
 contactNameTextView = findViewById(R.id.*contactNameTextView*);  
 contactNumberTextView = findViewById(R.id.*contactNumberTextView*);  
 contactEmailTextView = findViewById(R.id.*contactEmailTextView*);  
  
 // Get the contact data from the Intent  
 int contactImage = getIntent().getIntExtra("contact\_image", 0);  
 String contactName = getIntent().getStringExtra("contact\_name");  
 String contactNumber = getIntent().getStringExtra("contact\_number");  
 String contactEmail = getIntent().getStringExtra("contact\_email");  
  
 // Set the contact data  
 contactImageView.setImageResource(contactImage);  
 contactNameTextView.setText(contactName);  
 contactNumberTextView.setText(contactNumber);  
 contactEmailTextView.setText(contactEmail);  
 }  
}

<?xml version="1.0" encoding="utf-8"?>  
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:padding="16dp">  
  
 <ImageView  
 android:id="@+id/contactImageView"  
 android:layout\_width="150dp"  
 android:layout\_height="150dp"  
 android:layout\_centerHorizontal="true" />  
  
 <TextView  
 android:id="@+id/contactNameTextView"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@id/contactImageView"  
 android:layout\_marginTop="16dp"  
 android:text="Contact Name"  
 android:textSize="20sp"  
 android:gravity="center\_horizontal" />  
  
 <TextView  
 android:id="@+id/contactNumberTextView"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@id/contactNameTextView"  
 android:layout\_marginTop="16dp"  
 android:text="Phone Number"  
 android:textSize="18sp"  
 android:gravity="center\_horizontal" />  
  
 <TextView  
 android:id="@+id/contactEmailTextView"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@id/contactNumberTextView"  
 android:layout\_marginTop="16dp"  
 android:text="Email"  
 android:textSize="18sp"  
 android:gravity="center\_horizontal" />  
  
</RelativeLayout>

<?xml version="1.0" encoding="utf-8"?>  
<manifest xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:tools="http://schemas.android.com/tools"  
 package="com.example.k005\_contact\_page">  
  
 <application  
 android:allowBackup="true"  
 android:dataExtractionRules="@xml/data\_extraction\_rules"  
 android:fullBackupContent="@xml/backup\_rules"  
 android:icon="@mipmap/ic\_launcher"  
 android:label="@string/app\_name"  
 android:roundIcon="@mipmap/ic\_launcher\_round"  
 android:supportsRtl="true"  
 android:theme="@style/Theme.K005\_Contactpage"  
 tools:targetApi="31">  
  
 <!-- Main Activity (Screen 1) -->  
 <activity  
 android:name=".MainActivity"  
 android:exported="true">  
 <intent-filter>  
 <action android:name="android.intent.action.MAIN" />  
 <category android:name="android.intent.category.LAUNCHER" />  
 </intent-filter>  
 </activity>  
  
 <!-- Contact Details Activity (Screen 2) -->  
 <activity  
 android:name=".ContactDetailsActivity"  
 android:exported="true">  
 </activity>  
  
 </application>  
  
</manifest>





