

Question:

1. Create A Mobile Application For Taking A survey From The Customers/Users.
2. Present The Survey Results Using Custom Adapters
3. Test The Survey Application (Javacode) With Junit 5 In Androidstudio

Activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
    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">

    <TextView
        android:id="@+id/college_survey"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_centerHorizontal="true"
        android:layout_marginBottom="656dp"
        android:elevation="120dp"
        android:text="College Survey"
        android:textColor="@color/black"
        android:textSize="30dp"
        android:textStyle="bold"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.497"
        app:layout_constraintStart_toStartOf="parent" />

    <EditText
        android:id="@+id/editTextTextPersonName"
        android:layout_width="324dp"
        android:layout_height="55dp"
        android:ems="10"
        android:hint="Name"
        android:inputType="textPersonName"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.494"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

```

        app:layout_constraintVertical_bias="0.187" />

<EditText
    android:id="@+id/editTextNumber"
    android:layout_width="328dp"
    android:layout_height="51dp"
    android:ems="10"
    android:hint="Age"
    android:inputType="number"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.518"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.301" />

<Button
    android:id="@+id/button"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Submit"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.784"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.913" />

<EditText
    android:id="@+id/editTextTextPersonName2"
    android:layout_width="325dp"
    android:layout_height="54dp"
    android:ems="10"
    android:hint="College Name"
    android:inputType="textPersonName"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.412" />

<EditText
    android:id="@+id/editTextTextPersonName3"
    android:layout_width="324dp"
    android:layout_height="51dp"
    android:ems="10"
    android:hint="Degree"
    android:inputType="textPersonName"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"

```

```
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.516" />
```

<CheckBox

```
android:id="@+id/checkBox"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="Yes"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.289"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.67" />
```

<CheckBox

```
android:id="@+id/checkBox2"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="No"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.695"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.67" />
```

<TextView

```
android:id="@+id/textView3"
android:layout_width="328dp"
android:layout_height="43dp"
android:text="Are you satisfied with your College ?"
android:textColor="@color/black"
android:textSize="20dp"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.493"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.614" />
```

<EditText

```
android:id="@+id/editTextTextPersonName4"
android:layout_width="318dp"
android:layout_height="45dp"
android:ems="10"
android:inputType="textPersonName"
android:hint="Any Changes you need in ur college"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.526"
```

```

        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.769" />

<ImageView
    android:id="@+id/imageView2"
    android:layout_width="179dp"
    android:layout_height="139dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.072"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="1.0"
    app:srcCompat="@drawable/r" />

</androidx.constraintlayout.widget.ConstraintLayout>

```

Tej.java

```

package com.example.surveyapp;

public class tej {
    private int ivImageId;
    private String t;
    private String st;
    public tej( String t, String st,int ivImageId) {
        this.ivImageId = ivImageId;
        this.t = t;
        this.st = st;
    }
    public int getNumbersImageId() {
        return ivImageId;
    }
    public String getNumberInDigit() {
        return t;
    }
    public String getNumbersInText() {
        return st;
    }
}

```

SecondActivity.java

```

package com.example.surveyapp;

import android.content.Intent;
import android.os.Bundle;
import android.widget.EditText;
import android.widget.ListView;

import androidx.appcompat.app.AppCompatActivity;

```

```

import java.util.ArrayList;

public class SecondActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_second);
        Intent intent=getIntent();
        String name=intent.getExtras().getString("name");
        String age=intent.getExtras().getString("age");
        final ArrayList<tej> List1 = new ArrayList<tej>();
        List1.add(new tej(name,age,R.drawable.r));
        adapters numbersArrayAdapter = new adapters(this,List1);
        ListView numbersListView = findViewById(R.id.list);
        numbersListView.setAdapter(numbersArrayAdapter);
    }
}

```

AndroidManifest.xml

```

<?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.surveyapp">

    <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.SurveyApp"
        tools:targetApi="31">
        <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>
        <activity android:name=".SecondActivity"></activity>
    </application>

</manifest>

```

Adapters.java

```
package com.example.surveyapp;
import android.content.Context;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.ArrayAdapter;
import android.widget.ImageView;
import android.widget.TextView;
import androidx.annotation.NonNull;
import androidx.annotation.Nullable;
import java.util.ArrayList;
public class adapters extends ArrayAdapter<tej> {
    public adapters(@NonNull Context context, ArrayList<tej> arrayList)
    {
        super(context, 0, arrayList);
    }
    @NonNull
    @Override
    public View getView(int position, @Nullable View convertView, @NonNull
        ViewGroup parent) {
        View currentItemView = convertView;
        if (currentItemView == null) {
            currentItemView =
                LayoutInflater.from(getContext()).inflate(R.layout.custom_layout, parent,
                    false);
        }
        tej currentNumberPosition = getItem(position);
        ImageView numbersImage =
            currentItemView.findViewById(R.id.imageView);
        assert currentNumberPosition != null;

        numbersImage.setImageResource(currentNumberPosition.getNumbersImageId());
        TextView textView1 = currentItemView.findViewById(R.id.textView1);
        textView1.setText(currentNumberPosition.getNumberInDigit());
        TextView textView2 = currentItemView.findViewById(R.id.textView2);
        textView2.setText(currentNumberPosition.getNumbersInText());
        return currentItemView;
    }
}
```

activity_second.xml

```
<?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="match_parent">

    <ListView
        android:id="@+id/list"
        android:layout_width="match_parent"
        android:layout_height="match_parent"/>

</LinearLayout>
```

custom_layout.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal"
    android:background="@color/black"
    tools:ignore="UselessParent">
    <ImageView
        android:id="@+id/imageView"
        android:layout_width="84dp"
        android:layout_height="120dp"
        android:padding="16dp"
        tools:ignore="ContentDescription" />
    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:gravity="center_vertical"
        android:orientation="vertical">

        <TextView
            android:id="@+id/textView1"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_marginTop="16dp"
            android:gravity="bottom|left"
            android:textColor="@color/white"
            android:textSize="18sp"
            android:textStyle="bold"
            tools:ignore="RtlHardcoded" />
        <TextView
            android:id="@+id/textView2"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_marginBottom="16dp"
            android:gravity="top|left"
            android:textColor="@color/white"
            android:textSize="14sp"
            tools:ignore="RtlHardcoded" />
    </LinearLayout>
</LinearLayout>
```

MainActivity.java

```
package com.example.surveyapp;

import androidx.annotation.Nullable;
import androidx.appcompat.app.AppCompatActivity;

import android.content.Context;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;
```

```

public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        EditText username =
        (EditText) findViewById(R.id.editTextTextPersonName);
        EditText password = (EditText) findViewById(R.id.editTextNumber);
        Button b1 = (Button) findViewById(R.id.button);
        b1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {

                Toast.makeText(getApplicationContext(), "correct login
credentials", Toast.LENGTH_SHORT).show();

                Intent intent = new Intent(MainActivity.this,
SecondActivity.class);
                intent.putExtra("name", username.getText().toString());
                intent.putExtra("age", password.getText().toString());
                startActivity(intent);
            }

        });

    }
    @Override
    protected void onActivityResult(int requestCode, int resultCode,
@Nullable Intent data) {
        super.onActivityResult(requestCode, resultCode, data);
        if(requestCode==1){
            if(resultCode==RESULT_OK){
                int result=data.getIntExtra("result",0);
                Toast.makeText(this, ""+result, Toast.LENGTH_SHORT).show();
            }
            if(resultCode==RESULT_CANCELED){
                Toast.makeText(this, "Nothing Selected",
Toast.LENGTH_SHORT).show();
            }
        }
    }
}

```


OUTPUT:

Survey App

College Survey

Name

Age



College Name

Degree

Are you satisfied with your College ?

☐ Yes ☐ No

Any Changes you need in ur college

SUBMIT

Survey App

College Survey

Tejeswar

18



VIT

B.Tech

Are you satisfied with your College ?

☒ Yes ☐ No

Should provide some empty rooms

SUBMIT



Layout:

Survey App

College Survey

Name

Age

College Name

Degree

Are You Satisfied ?

☐ Yes ☐ No

Survey App

☐ Name

☐ Age

jUnit5:

