**Android Internship Report**

**Personal Details**

Name : Krina Rajvi

Enrollment No. : 181214116010

College Name : Apollo Institute of Engineering And Technology

Degree : BE

Branch : Information and Technology

Semester : 7

Github URL : <https://github.com/krinarajvi/Summer-Internship-Project.git>

**Company Details**

Company Name : Akash Technolabs

External Guide : Akash Padhiyar

Training Duration : 26-05-2021 to 07-06-2021

# 1.ACTIVITY LIFE CYCLE

**XML FILE-**

<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"  
 android:gravity="center"  
 android:orientation="vertical"  
 tools:context=".MainActivity">  
  
 <EditText  
 android:id="@+id/edit\_text"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:inputType="number" />  
  
 <EditText  
 android:id="@+id/edit\_text2"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:inputType="number" />  
  
 <EditText  
 android:id="@+id/age"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content" />  
  
 <Button  
 android:id="@+id/button"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="calculate" />  
  
 <Button  
 android:id="@+id/check"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="check" />  
  
</LinearLayout>

JAVA ACTIVITY FILE-

public class MainActivity extends AppCompatActivity {  
 EditText edit\_text ,edit\_text2;  
 Button button;  
 EditText age;  
 Button check;  
  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 edit\_text=findViewById(R.id.*edit\_text*);  
 edit\_text2=findViewById(R.id.*edit\_text2*);  
 button=findViewById(R.id.*button*);  
 age=findViewById(R.id.*age*);  
 check=findViewById(R.id.*check*);  
 button.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 int edittext1 = Integer.*parseInt*(edit\_text.getText().toString());  
 int edittext2 = Integer.*parseInt*(edit\_text2.getText().toString());  
 if (edittext1>edittext2){  
 Toast.*makeText*(MainActivity.this, edit\_text.getText().toString(), Toast.*LENGTH\_SHORT*).show();  
 }else {  
 Toast.*makeText*(MainActivity.this, edit\_text2.getText().toString(), Toast.*LENGTH\_SHORT*).show();  
 }  
  
 }  
 });  
 check.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 int agenumber = Integer.*parseInt*(age.getText().toString());  
 if (agenumber<=18){  
 Toast.*makeText*(MainActivity.this, "not elgible", Toast.*LENGTH\_SHORT*).show();  
 }else{  
 Toast.*makeText*(MainActivity.this, "Eligible to vote", Toast.*LENGTH\_SHORT*).show();  
 }  
 }  
 });  
 Toast.*makeText*(this, "OnCreate", Toast.*LENGTH\_SHORT*).show();  
 }  
  
 @Override  
 protected void onStart() {  
 super.onStart();  
 Toast.*makeText*(this, "onStart", Toast.*LENGTH\_SHORT*).show();  
 }  
  
 @Override  
 protected void onRestart() {  
 super.onRestart();  
 Toast.*makeText*(this, "onRestart", Toast.*LENGTH\_SHORT*).show();  
 }  
  
 @Override  
 protected void onResume() {  
 super.onResume();  
 Toast.*makeText*(this, "onResume", Toast.*LENGTH\_SHORT*).show();  
 }  
  
 @Override  
 protected void onStop() {  
 super.onStop();  
 Toast.*makeText*(this, "onStop", Toast.*LENGTH\_SHORT*).show();  
 }  
  
 @Override  
 protected void onDestroy() {  
 super.onDestroy();  
 Toast.*makeText*(this, "onDestroy", Toast.*LENGTH\_SHORT*).show();  
 }  
  
}

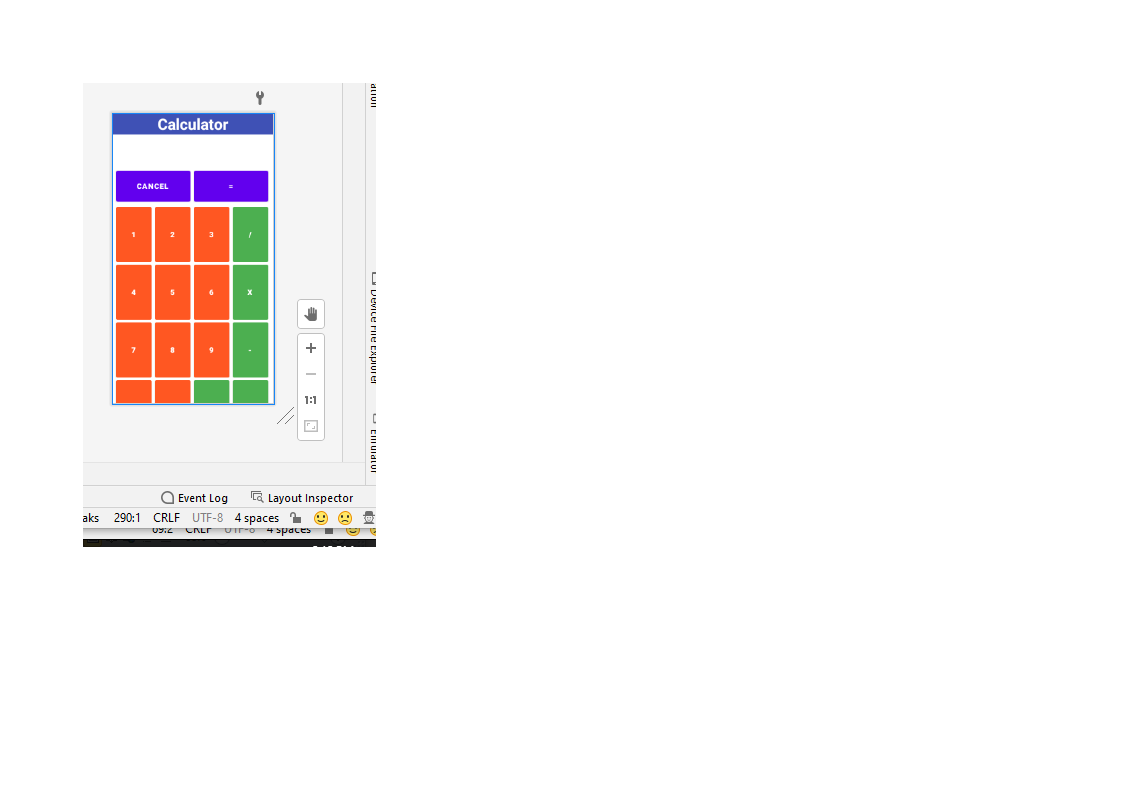
## 2. CALCULATOR

**XML FILE-**

<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="match\_parent"  
 android:orientation="vertical"  
 tools:context=".MainActivity">  
  
 <TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:background="#3F51B5"  
 android:gravity="center"  
 android:text="Calculator"  
 android:textColor="@color/white"  
 android:textSize="30dp"  
 android:textStyle="bold" />  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="horizontal"  
 android:padding="10dp">  
  
 <EditText  
 android:id="@+id/editText"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:backgroundTint="#FFFFFF"  
 android:inputType="number" />  
  
 </LinearLayout>  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="72dp"  
 android:layout\_marginStart="5dp"  
 android:layout\_marginEnd="5dp"  
 android:orientation="horizontal">  
  
 <Button  
 android:id="@+id/buttonCancel"  
 android:layout\_width="0dp"  
 android:layout\_height="match\_parent"  
 android:layout\_marginStart="2dp"  
 android:layout\_marginEnd="4dp"  
 android:layout\_weight="1"  
 android:text="cancel"  
 android:textStyle="bold"/>  
  
  
 <Button  
 android:id="@+id/buttonEqual"  
 android:layout\_width="0dp"  
 android:layout\_height="match\_parent"  
 android:layout\_marginStart="2dp"  
 android:layout\_marginEnd="4dp"  
 android:layout\_weight="1"  
 android:textStyle="bold"  
 android:text="=" />  
  
 </LinearLayout>  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="115dp"  
 android:layout\_marginStart="5dp"  
 android:layout\_marginEnd="5dp"  
 android:orientation="horizontal">  
  
 <Button  
 android:id="@+id/button1"  
 android:layout\_width="0dp"  
 android:layout\_height="120dp"  
 android:layout\_marginStart="2dp"  
 android:layout\_marginEnd="4dp"  
 android:layout\_weight="1"  
 android:backgroundTint="#FF5722"  
 android:text="1"  
 android:textStyle="bold" />  
  
 <Button  
 android:id="@+id/button2"  
 android:layout\_width="0dp"  
 android:layout\_height="120dp"  
 android:layout\_marginStart="2dp"  
 android:layout\_marginEnd="4dp"  
 android:layout\_weight="1"  
 android:backgroundTint="#FF5722"  
 android:text="2"  
 android:textStyle="bold" />  
  
 <Button  
 android:id="@+id/button3"  
 android:layout\_width="0dp"  
 android:layout\_height="120dp"  
  
 android:layout\_marginStart="2dp"  
 android:layout\_marginEnd="4dp"  
 android:layout\_weight="1"  
 android:backgroundTint="#FF5722"  
 android:text="3"  
 android:textStyle="bold" />  
  
 <Button  
 android:id="@+id/buttonDivide"  
  
 android:layout\_width="0dp"  
 android:layout\_height="120dp"  
  
 android:layout\_marginStart="2dp"  
 android:layout\_marginEnd="4dp"  
 android:layout\_weight="1"  
 android:backgroundTint="#4CAF50"  
 android:text="/"  
 android:textStyle="bold">  
  
 </Button>  
  
 </LinearLayout>  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="115dp"  
 android:layout\_marginStart="5dp"  
 android:layout\_marginEnd="5dp"  
 android:orientation="horizontal">  
  
 <Button  
 android:id="@+id/button4"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="120dp"  
 android:layout\_marginStart="2dp"  
 android:layout\_marginEnd="4dp"  
 android:layout\_weight="1"  
 android:backgroundTint="#FF5722"  
 android:text="4"  
 android:textStyle="bold" />  
  
 <Button  
 android:id="@+id/button5"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="120dp"  
 android:layout\_marginStart="2dp"  
 android:layout\_marginEnd="4dp"  
 android:layout\_weight="1"  
 android:backgroundTint="#FF5722"  
 android:text="5"  
 android:textStyle="bold" />  
  
 <Button  
 android:id="@+id/button6"  
  
 android:layout\_width="wrap\_content"  
 android:layout\_height="120dp"  
 android:layout\_marginStart="2dp"  
 android:layout\_marginEnd="4dp"  
 android:layout\_weight="1"  
 android:backgroundTint="#FF5722"  
 android:text="6"  
 android:textStyle="bold" />  
  
 <Button  
 android:id="@+id/buttonMultiply"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="120dp"  
 android:layout\_marginStart="2dp"  
 android:layout\_marginEnd="4dp"  
 android:layout\_weight="1"  
 android:backgroundTint="#4CAF50"  
 android:text="X"  
 android:textStyle="bold" />  
  
  
 </LinearLayout>  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="115dp"  
 android:layout\_marginStart="5dp"  
 android:layout\_marginEnd="5dp"  
 android:orientation="horizontal">  
  
 <Button  
 android:id="@+id/button7"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="120dp"  
 android:layout\_marginStart="2dp"  
 android:layout\_marginEnd="4dp"  
 android:layout\_weight="1"  
 android:backgroundTint="#FF5722"  
 android:text="7"  
 android:textStyle="bold" />  
  
 <Button  
 android:id="@+id/button8"  
  
 android:layout\_width="wrap\_content"  
 android:layout\_height="120dp"  
 android:layout\_marginStart="2dp"  
 android:layout\_marginEnd="4dp"  
 android:layout\_weight="1"  
 android:backgroundTint="#FF5722"  
 android:text="8"  
 android:textStyle="bold" />  
  
 <Button  
 android:id="@+id/button9"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="120dp"  
 android:layout\_marginStart="2dp"  
 android:layout\_marginEnd="4dp"  
 android:layout\_weight="1"  
 android:backgroundTint="#FF5722"  
 android:text="9"  
 android:textStyle="bold" />  
  
 <Button  
 android:id="@+id/buttonMinus"  
  
 android:layout\_width="wrap\_content"  
 android:layout\_height="120dp"  
 android:layout\_marginStart="2dp"  
 android:layout\_marginEnd="4dp"  
 android:layout\_weight="1"  
 android:backgroundTint="#4CAF50"  
 android:text="-"  
 android:textStyle="bold" />  
  
 </LinearLayout>  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="115dp"  
 android:layout\_marginStart="5dp"  
 android:layout\_marginEnd="5dp"  
 android:orientation="horizontal">  
  
 <Button  
 android:id="@+id/button0"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="120dp"  
 android:layout\_marginStart="2dp"  
 android:layout\_marginEnd="4dp"  
 android:layout\_weight="1"  
 android:backgroundTint="#FF5722"  
 android:text="0"  
 android:textStyle="bold" />  
  
 <Button  
 android:id="@+id/buttonDot"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="120dp"  
 android:layout\_marginStart="2dp"  
 android:layout\_marginEnd="4dp"  
 android:layout\_weight="1"  
 android:backgroundTint="#FF5722"  
 android:text="."  
 android:textStyle="bold" />  
  
 <Button  
 android:id="@+id/buttonPercent"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="120dp"  
 android:layout\_marginStart="2dp"  
 android:layout\_marginEnd="4dp"  
 android:layout\_weight="1"  
 android:backgroundTint="#4CAF50"  
 android:text="%"  
 android:textStyle="bold" />  
  
  
 <Button  
 android:id="@+id/buttonPlus"  
  
 android:layout\_width="wrap\_content"  
 android:layout\_height="120dp"  
 android:layout\_marginStart="2dp"  
 android:layout\_marginEnd="4dp"  
 android:layout\_weight="1"  
 android:backgroundTint="#4CAF50"  
 android:text="+"  
 android:textStyle="bold" />  
  
 </LinearLayout>  
  
  
</LinearLayout>

**JAVA FILE-**

public class MainActivity extends AppCompatActivity implements View.OnClickListener {  
  
 private EditText editText;  
 private Button button1, button2, button3, button4, button5, button6, button7, button8, button9, button0, buttonDot, buttonPlus, buttonMinus, buttonMultiply, buttonDivide, buttonCancel, buttonEqual;  
  
  
 private float firstValue = 0, secondValue = 0, result = 0;  
 private boolean isPlus = false, isMinus = false, isDivide = false, isMultiply = false,isResult=false;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 findviewbyid();  
  
  
 }  
  
 @Override  
 public void onClick(View view) {  
 if (editText.getText().toString().contains("=")) {  
 String[] edittextvalue = editText.getText().toString().split("=");  
 firstValue = Float.*parseFloat*(edittextvalue[1]);  
 editText.setText("");  
 }  
  
  
  
  
 switch (view.getId()) {  
 case R.id.*button0*:  
 checkResult();  
 editText.setText(editText.getText().toString() + "0");  
 break;  
 case R.id.*buttonDot*:  
 editText.setText(editText.getText().toString() + ".");  
 break;  
 case R.id.*button1*:  
 checkResult();  
 editText.setText(editText.getText().toString() + "1");  
 break;  
 case R.id.*button2*:  
 checkResult();  
 editText.setText(editText.getText().toString() + "2");  
 break;  
 case R.id.*button3*:  
 checkResult();  
 editText.setText(editText.getText().toString() + "3");  
 break;  
 case R.id.*button4*:  
 checkResult();  
 editText.setText(editText.getText().toString() + "4");  
 break;  
 case R.id.*button5*:  
 checkResult();  
 editText.setText(editText.getText().toString() + "5");  
 break;  
 case R.id.*button6*:  
 checkResult();  
 editText.setText(editText.getText().toString() + "6");  
 break;  
 case R.id.*button7*:  
 checkResult();  
 editText.setText(editText.getText().toString() + "7");  
 break;  
 case R.id.*button8*:  
 checkResult();  
 editText.setText(editText.getText().toString() + "8");  
 break;  
 case R.id.*button9*:  
 checkResult();  
 editText.setText(editText.getText().toString() + "9");  
 break;  
 case R.id.*buttonPlus*:  
 if (isPlus){  
 secondValue = Float.*parseFloat*(editText.getText().toString());  
 result = firstValue + secondValue;  
 firstValue=0;  
 }  
 isPlus = true;  
 if (result != 0) {  
 firstValue = result;  
 } else {  
 String val = editText.getText().toString();  
 if (!val.isEmpty() && !val.contains("=")) {  
 firstValue = Float.*parseFloat*(editText.getText().toString());  
 } else if (val.contains("=")) {  
 firstValue = result;  
 }  
  
 }  
 editText.setText("");  
  
  
 break;  
 case R.id.*buttonMinus*:  
 if (isMinus){  
 secondValue = Float.*parseFloat*(editText.getText().toString());  
 result = firstValue - secondValue;  
 firstValue=0;  
 }  
 isMinus = true;  
  
 if (result != 0) {  
 firstValue = result;  
 } else {  
 String val = editText.getText().toString();  
 if (!val.isEmpty() && !val.contains("=")) {  
 firstValue = Float.*parseFloat*(editText.getText().toString());  
 } else if (val.contains("=")) {  
 firstValue = result;  
 }  
 }  
 editText.setText("");  
 break;  
 case R.id.*buttonMultiply*:  
 if (isMultiply){  
 secondValue = Float.*parseFloat*(editText.getText().toString());  
 result = firstValue \* secondValue;  
 firstValue=0;  
 }  
 isMultiply = true;  
 if (result != 0) {  
 firstValue = result;  
 } else {  
 String val = editText.getText().toString();  
 if (!val.isEmpty() && !val.contains("=")) {  
 firstValue = Float.*parseFloat*(editText.getText().toString());  
 } else if (val.contains("=")) {  
 firstValue = result;  
 }  
 }  
 editText.setText("");  
 break;  
 case R.id.*buttonDivide*:  
 if (isDivide){  
 secondValue = Float.*parseFloat*(editText.getText().toString());  
 result = firstValue / secondValue;  
 firstValue=0;  
 }  
 isDivide = true;  
 if (result != 0) {  
 firstValue = result;  
 } else {  
 String val = editText.getText().toString();  
 if (!val.isEmpty() && !val.contains("=")) {  
 firstValue = Float.*parseFloat*(editText.getText().toString());  
 } else if (val.contains("=")) {  
 firstValue = result;  
 }  
 }  
 editText.setText("");  
 break;  
 case R.id.*buttonEqual*:  
 isResult = true;  
 String val = editText.getText().toString();  
 if (!val.isEmpty()) {  
 secondValue = Float.*parseFloat*(editText.getText().toString());  
 }  
 if (isPlus) {  
 result = firstValue + secondValue;  
 DecimalFormat format = new DecimalFormat("0.##");  
 format.setRoundingMode(RoundingMode.*DOWN*);  
 editText.setText(format.format(result));  
  
 isPlus = false;  
 }  
 if (isMinus) {  
 result = firstValue - secondValue;  
 DecimalFormat format = new DecimalFormat("0.##");  
 format.setRoundingMode(RoundingMode.*DOWN*);  
 editText.setText(format.format(result));  
 isMinus = false;  
  
 }  
  
 if (isMultiply) {  
 result = firstValue \* secondValue;  
 DecimalFormat format = new DecimalFormat("0.####");  
 format.setRoundingMode(RoundingMode.*DOWN*);  
 editText.setText( format.format(result));  
  
 isMultiply = false;  
  
 }  
  
 if (isDivide) {  
 String resultdivision, firstvaluedivision, secondvaluedivision;  
 result = firstValue / secondValue;  
 resultdivision = String.*valueOf*(result);  
 firstvaluedivision = String.*valueOf*(firstValue);  
 secondvaluedivision = String.*valueOf*(secondValue);  
  
 String[] replacefirst = firstvaluedivision.split("\\.");  
 if (replacefirst.length > 1) {  
 if (Integer.*parseInt*(replacefirst[1]) == 0) {  
 firstvaluedivision = replacefirst[0];  
 }  
 }  
 String[] replacesecond = secondvaluedivision.split("\\.");  
 if (replacesecond.length > 1) {  
 if (Integer.*parseInt*(replacesecond[1]) == 0) {  
 secondvaluedivision = replacesecond[0];  
 }  
 }  
  
 String[] replaceresult = resultdivision.split("\\."); *// resultdivision = 6.0 , replace = 0 = 6 and 1 pos = 0* if (replaceresult.length > 1) { *// result length 2* if (Integer.*parseInt*(replaceresult[1]) == 0) { *// replace[1] = 0 ,true* resultdivision = replaceresult[0]; *//replace[0] = 6* }  
 }  
 editText.setText(firstvaluedivision + " / " + secondvaluedivision + " = " + resultdivision);  
 isDivide = false;  
 }  
 result = 0;  
 break;  
  
 case R.id.*buttonCancel*:  
 editText.setText("");  
 firstValue = 0;  
 secondValue = 0;  
 result = 0;  
 break;  
 }  
 }  
 private void checkResult(){  
 if (isResult){  
 editText.setText("");  
 isResult = false;  
 }  
 }  
  
 private void findviewbyid() {  
 editText = findViewById(R.id.*editText*);  
 button1 = findViewById(R.id.*button1*);  
 button2 = findViewById(R.id.*button2*);  
 button3 = findViewById(R.id.*button3*);  
 button4 = findViewById(R.id.*button4*);  
 button5 = findViewById(R.id.*button5*);  
 button6 = findViewById(R.id.*button6*);  
 button7 = findViewById(R.id.*button7*);  
 button8 = findViewById(R.id.*button8*);  
 button9 = findViewById(R.id.*button9*);  
 button0 = findViewById(R.id.*button0*);  
 buttonDot = findViewById(R.id.*buttonDot*);  
 buttonPlus = findViewById(R.id.*buttonPlus*);  
 buttonMinus = findViewById(R.id.*buttonMinus*);  
 buttonMultiply = findViewById(R.id.*buttonMultiply*);  
 buttonDivide = findViewById(R.id.*buttonDivide*);  
 buttonCancel = findViewById(R.id.*buttonCancel*);  
 buttonEqual = findViewById(R.id.*buttonEqual*);  
 setclicklistner();  
 }  
  
 private void setclicklistner() {  
 button0.setOnClickListener(this);  
 buttonDot.setOnClickListener(this);  
 button1.setOnClickListener(this);  
 button2.setOnClickListener(this);  
 button3.setOnClickListener(this);  
 button4.setOnClickListener(this);  
 button5.setOnClickListener(this);  
 button6.setOnClickListener(this);  
 button7.setOnClickListener(this);  
 button8.setOnClickListener(this);  
 button9.setOnClickListener(this);  
 buttonPlus.setOnClickListener(this);  
 buttonMinus.setOnClickListener(this);  
 buttonMultiply.setOnClickListener(this);  
 buttonDivide.setOnClickListener(this);  
 buttonCancel.setOnClickListener(this);  
 buttonEqual.setOnClickListener(this);  
  
 }  
}



## 3. REGISTRATION & LOGIN(INTENT)

**XML FILE-**

<ScrollView 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">  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:gravity="center"  
 android:orientation="vertical"  
 android:padding="10dp">  
  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_gravity="center\_horizontal"  
 android:layout\_margin="20dp"  
 android:text="Registration"  
 android:textAppearance="@style/TextAppearance.AppCompat.Body2"  
 android:textColor="@color/teal\_200"  
 android:textSize="30dp" />  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content">  
  
 <Spinner  
 android:id="@+id/spinner"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content" />  
  
 <EditText  
 android:id="@+id/editTextTextPersonName"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="10dp"  
 android:ems="10"  
 android:hint="First Name"  
 android:inputType="textPersonName" />  
  
  
 </LinearLayout>  
  
 <EditText  
 android:id="@+id/editTextTextEmailAddress"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:hint="Email Id"  
 android:inputType="textEmailAddress" />  
  
  
 <EditText  
 android:id="@+id/editTextTextPassword"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:hint="Password"  
 android:inputType="textPassword" />  
  
  
 <EditText  
 android:id="@+id/editTextTextConfirmPassword"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:hint="Confirm Password"  
 android:inputType="textPassword" />  
  
  
 <TextView  
 android:id="@+id/textView"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="39dp"  
 android:text="Hobbies"  
 android:textSize="30dp" />  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="horizontal">  
  
 <CheckBox  
 android:id="@+id/checkBox4"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="34dp"  
 android:layout\_weight="1"  
 android:text="dance" />  
  
 <CheckBox  
 android:id="@+id/checkBox"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="34dp"  
 android:layout\_weight="1"  
 android:text="traveling" />  
 </LinearLayout>  
  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="horizontal">  
  
 <CheckBox  
 android:id="@+id/checkBox3"  
  
 android:layout\_width="wrap\_content"  
 android:layout\_height="40dp"  
 android:layout\_weight="1"  
 android:text="sports" />  
  
 <CheckBox  
 android:id="@+id/checkBox2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="34dp"  
 android:layout\_gravity="clip\_horizontal"  
 android:layout\_weight="1"  
 android:text="music" />  
  
 </LinearLayout>  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="horizontal">  
  
 <RadioButton  
 android:id="@+id/radiobuttonMale"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="Male" />  
  
 <RadioButton  
 android:id="@+id/radiobuttonFemale"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="Female" />  
 </LinearLayout>  
  
 <TextView  
 android:id="@+id/Textview"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content" />  
  
  
 <RadioGroup  
 android:id="@+id/radiogroup"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content">  
  
 </RadioGroup>  
  
 <TextView  
 android:id="@+id/TextViewSelect"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content" />  
  
 <Button  
 android:id="@+id/btnLogin"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="70dp"  
 android:text="Register" />  
  
 </LinearLayout>  
</ScrollView>

**JAVA FILE-**

public class MainActivity extends AppCompatActivity {  
 EditText editTextTextPersonName, editTextTextEmailAddress, editTextTextPassword, editTextTextConfirmPassword;  
 TextView textView, Textview, TextViewSelect;  
 android.widget.CheckBox CheckBox, CheckBox2, CheckBox3, CheckBox4;  
 Button btnLogin;  
 Spinner spinner;  
 RadioGroup radioGroup;  
 RadioButton radiobuttonMale, radiobuttonFemale;  
  
 Prefrences preferences;  
 String emailid, password;  
 String selectedRadioButton;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
  
 setContentView(R.layout.*activity\_main*);  
 editTextTextEmailAddress = findViewById(R.id.*editTextTextEmailAddress*);  
 editTextTextPersonName = findViewById(R.id.*editTextTextPersonName*);  
 editTextTextPassword = findViewById(R.id.*editTextTextPassword*);  
 editTextTextConfirmPassword = findViewById(R.id.*editTextTextConfirmPassword*);  
 CheckBox = findViewById(R.id.*checkBox*);  
 CheckBox2 = findViewById(R.id.*checkBox2*);  
 CheckBox3 = findViewById(R.id.*checkBox3*);  
 CheckBox4 = findViewById(R.id.*checkBox4*);  
 spinner = findViewById(R.id.*spinner*);  
 radioGroup = findViewById(R.id.*radiogroup*);  
 radiobuttonMale = findViewById(R.id.*radiobuttonMale*);  
 radiobuttonFemale = findViewById(R.id.*radiobuttonFemale*);  
 textView = findViewById(R.id.*TextViewSelect*);  
 btnLogin = findViewById(R.id.*btnLogin*);  
  
 preferences = new Prefrences();  
  
 ArrayList<String> category = new ArrayList<>();  
 category.add("Mr.");  
 category.add("Mrs.");  
  
 ArrayAdapter<String> dataAdapter = new ArrayAdapter<String>(this, android.R.layout.*simple\_spinner\_item*, category);  
 spinner.setAdapter(dataAdapter);  
  
 setOnCheckChangeListner(CheckBox);  
 setOnCheckChangeListner(CheckBox2);  
 setOnCheckChangeListner(CheckBox3);  
 setOnCheckChangeListner(CheckBox4);  
   
   
   
  
 radioGroup.setOnCheckedChangeListener(new RadioGroup.OnCheckedChangeListener() {  
 @Override  
 public void onCheckedChanged(RadioGroup group, int checkedId) {  
 switch (checkedId) {  
 case R.id.*radiobuttonMale*:  
 Toast.*makeText*(MainActivity.this, "Male", Toast.*LENGTH\_SHORT*).show();  
 break;  
 case R.id.*radiobuttonFemale*:  
 Toast.*makeText*(MainActivity.this, "female", Toast.*LENGTH\_SHORT*).show();  
 break;  
 }  
 }  
 });  
  
 btnLogin.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 if (editTextTextPersonName.getText().toString().matches("")) {  
 Toast.*makeText*(MainActivity.this, "Enter First Name", Toast.*LENGTH\_SHORT*).show();  
 } else if (editTextTextEmailAddress.getText().toString().matches("")) {  
 Toast.*makeText*(MainActivity.this, "Enter Email", Toast.*LENGTH\_SHORT*).show();  
 } else if (!android.util.Patterns.*EMAIL\_ADDRESS*.matcher(editTextTextEmailAddress.getText().toString()).matches()) {  
 Toast.*makeText*(MainActivity.this, "Enter valid email address..", Toast.*LENGTH\_SHORT*).show();  
 } else if (editTextTextPassword.getText().toString().matches("")) {  
 Toast.*makeText*(MainActivity.this, "Enter password", Toast.*LENGTH\_SHORT*).show();  
 } else if (editTextTextConfirmPassword.getText().toString().matches("")) {  
 Toast.*makeText*(MainActivity.this, "confirm password", Toast.*LENGTH\_SHORT*).show();  
 } else if (!editTextTextPassword.getText().toString().matches(editTextTextConfirmPassword.getText().toString())) {  
 Toast.*makeText*(MainActivity.this, "password not matching", Toast.*LENGTH\_SHORT*).show();  
 } else if (!radiobuttonMale.isChecked()  
 && !radiobuttonFemale.isChecked()) {  
 Toast.*makeText*(MainActivity.this, "Please select gender", Toast.*LENGTH\_SHORT*).show();  
 } else if (!CheckBox.isChecked()  
 && !CheckBox2.isChecked()  
 && !CheckBox3.isChecked()  
 && !CheckBox4.isChecked()) {  
 Toast.*makeText*(MainActivity.this, "please select a hobby", Toast.*LENGTH\_SHORT*).show();  
 } else {  
  
 Toast.*makeText*(MainActivity.this, "Register successful ", Toast.*LENGTH\_SHORT*).show();  
 preferences.setSharedPrefrence(MainActivity.this, "EmailId", editTextTextEmailAddress.getText().toString());  
 preferences.setSharedPrefrence(MainActivity.this, "Password", editTextTextPassword.getText().toString());  
  
 Intent intent = new Intent(MainActivity.this, LoginActivity.class);  
 startActivity(intent);  
  
  
 }  
 }  
 });  
 }  
  
private void setOnCheckChangeListner(CheckBox checkBox){  
 checkBox.setOnCheckedChangeListener(new CompoundButton.OnCheckedChangeListener() {  
 @Override  
 public void onCheckedChanged(CompoundButton buttonView, boolean isChecked) {  
 String selectedcheckbox = "";  
 if (CheckBox.isChecked()) {  
 selectedcheckbox = selectedcheckbox + " " + CheckBox.getText().toString();  
 }  
 if (CheckBox2.isChecked()) {  
 selectedcheckbox = selectedcheckbox + "," + CheckBox2.getText().toString();  
 }  
 if (CheckBox3.isChecked()) {  
 selectedcheckbox = selectedcheckbox + "," + CheckBox3.getText().toString();  
 }  
 if (CheckBox4.isChecked()) {  
 selectedcheckbox = selectedcheckbox + "," + CheckBox4.getText().toString();  
 }  
 textView.setText(selectedcheckbox);  
 }  
 });  
}  
}

**XML FILE 2-**

<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"  
 android:gravity="center"  
 android:orientation="vertical"  
 tools:context=".LoginActivity">  
  
  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Login"  
 android:textColor="@android:color/holo\_blue\_dark"  
 android:textSize="40dp" />  
  
 <EditText  
 android:id="@+id/editTextTextEmailAddress"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:hint="Email ID "  
 android:lines="1"  
 android:inputType="textEmailAddress" />  
  
 <EditText  
 android:id="@+id/etPassword"  
 android:lines="1"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="password "  
 android:inputType="textPassword" />  
  
 <Button  
 android:id="@+id/btnLogin"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="100dp"  
 android:text="Login" />  
  
  
</LinearLayout>

**JAVA FILE 2-**

public class LoginActivity<preferences, emailid, password> extends AppCompatActivity {  
 TextView TextView;  
 EditText editTextTextEmailAddress, etPassword;  
 Button btnLogin;  
  
 Prefrences preferences;  
 String emailid, password;  
  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_login*);  
  
 editTextTextEmailAddress = findViewById(R.id.*editTextTextEmailAddress*);  
 etPassword = findViewById(R.id.*etPassword*);  
 btnLogin = findViewById(R.id.*btnLogin*);  
  
 preferences = new Prefrences();  
  
  
 emailid = preferences.getSharedPrefrence(LoginActivity.this, "EmailId");  
 password = preferences.getSharedPrefrence(LoginActivity.this, "Password");  
  
  
 btnLogin.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 if (editTextTextEmailAddress.getText().toString().matches("")) {  
 Toast.*makeText*(LoginActivity.this, "Enter Email", Toast.*LENGTH\_SHORT*).show();  
 } else if (etPassword.getText().toString().matches("")) {  
 Toast.*makeText*(LoginActivity.this, "Enter password", Toast.*LENGTH\_SHORT*).show();  
 } else {  
 if (!editTextTextEmailAddress.getText().toString().matches("") && !etPassword.getText().toString().matches("")) {  
 Toast.*makeText*(LoginActivity.this, "wrong credentials", Toast.*LENGTH\_SHORT*).show();  
  
 }  
 else {  
 Toast.*makeText*(LoginActivity.this, "login successful", Toast.*LENGTH\_SHORT*).show();  
 }  
 }  
 }  
 });  
  
  
 }  
}

## C:\Users\ANISHSIR\Desktop\REG.png

## C:\Users\ANISHSIR\Desktop\LOGIN.png

## 4.RECYCLER VIEW

**XML FILE-**

<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="wrap\_content"  
 android:gravity="top"  
 android:orientation="vertical"  
 tools:context=".MainActivity">  
 <androidx.recyclerview.widget.RecyclerView  
 android:id="@+id/recycleView"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:padding="10dp"  
 tools:layout\_editor\_absoluteX="0dp"  
 tools:layout\_editor\_absoluteY="0dp"  
 android:nestedScrollingEnabled="false"/>  
  
</LinearLayout>

**LIST DATA-**

<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 xmlns:tools="http://schemas.android.com/tools">  
  
 <androidx.cardview.widget.CardView  
 android:id="@+id/cardView"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="15dp"  
 android:layout\_marginTop="10dp"  
 android:layout\_marginEnd="15dp"  
 android:background="@color/white"  
 android:elevation="5dp"  
 android:padding="20dp"  
 android:visibility="visible"  
 app:cardCornerRadius="7dp"  
 app:cardElevation="8dp"  
 app:layout\_constraintLeft\_toLeftOf="parent"  
 app:layout\_constraintRight\_toRightOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 android:nestedScrollingEnabled="false">  
  
 <androidx.constraintlayout.widget.ConstraintLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="90dp"  
 android:padding="10dp">  
  
 <TextView  
 android:id="@+id/versionName"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="25dp"  
 android:layout\_marginTop="5dp"  
 android:text="Cupcake"  
 android:textSize="20dp"  
 android:textStyle="bold"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <TextView  
 android:id="@+id/versionNum"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="4dp"  
 android:layout\_marginTop="5dp"  
 android:text="1.5"  
 android:textSize="15dp"  
 app:layout\_constraintEnd\_toStartOf="@id/versionImage"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="@id/versionName"  
 app:layout\_constraintTop\_toBottomOf="@id/versionName" />  
  
 <ImageView  
 android:id="@+id/versionImage"  
 tools:layout\_editor\_absoluteX="16dp"  
 tools:layout\_editor\_absoluteY="249dp"  
 android:layout\_width="100dp"  
 android:layout\_height="match\_parent"  
 android:layout\_margin="10dp"  
 android:padding="5dp"  
 android:src="@drawable/cupcake"  
 app:layout\_constraintEnd\_toEndOf="parent" />  
  
 </androidx.constraintlayout.widget.ConstraintLayout>  
 </androidx.cardview.widget.CardView>  
  
</androidx.constraintlayout.widget.ConstraintLayout>

**JAVA FILE-(MAIN ACTIVITY)**

public class MainActivity<recyclerview> extends AppCompatActivity implements recyclerInterface {  
 RecyclerView recycleView;  
 recyclerInterface recyclerInterface;  
 ArrayList<listdata> list = new ArrayList<>();  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 recycleView = findViewById(R.id.*recycleView*);  
 recyclerInterface = this;  
  
 list.add(new listdata("Donut", "1.6", R.drawable.*donut*));  
 list.add(new listdata("Cupcake", "1.5", R.drawable.*cupcake*));  
 list.add(new listdata("Froyo", "2.0-2.2.3", R.drawable.*froyo*));  
 list.add(new listdata("Icecream Sandwich", "4.0", R.drawable.*gingerbread*));  
 list.add(new listdata("Honeycomb", "3.0-3.2.6", R.drawable.*honeycomb*));  
 list.add(new listdata("Gingerbread", "2.2.3-7", R.drawable.*gingerbread*));  
 list.add(new listdata("Lolipop", "5.0-5.1", R.drawable.*lolipop*));  
 list.add(new listdata("Eclair", "2.0-2.1", R.drawable.*eclair*));  
  
  
 Adapter adapter = new Adapter(list, this, recyclerInterface);  
 LinearLayoutManager mLayoutManager = new LinearLayoutManager(getApplicationContext());  
 recycleView.setLayoutManager(mLayoutManager);  
 recycleView.setAdapter(adapter);  
  
 }  
  
 @Override  
 public void onItemClick(int position, View view) {  
 Toast.*makeText*(this, list.get(position).getVersionName(), Toast.*LENGTH\_SHORT*).show();  
 }  
  
  
}

**ADAPTAR-**

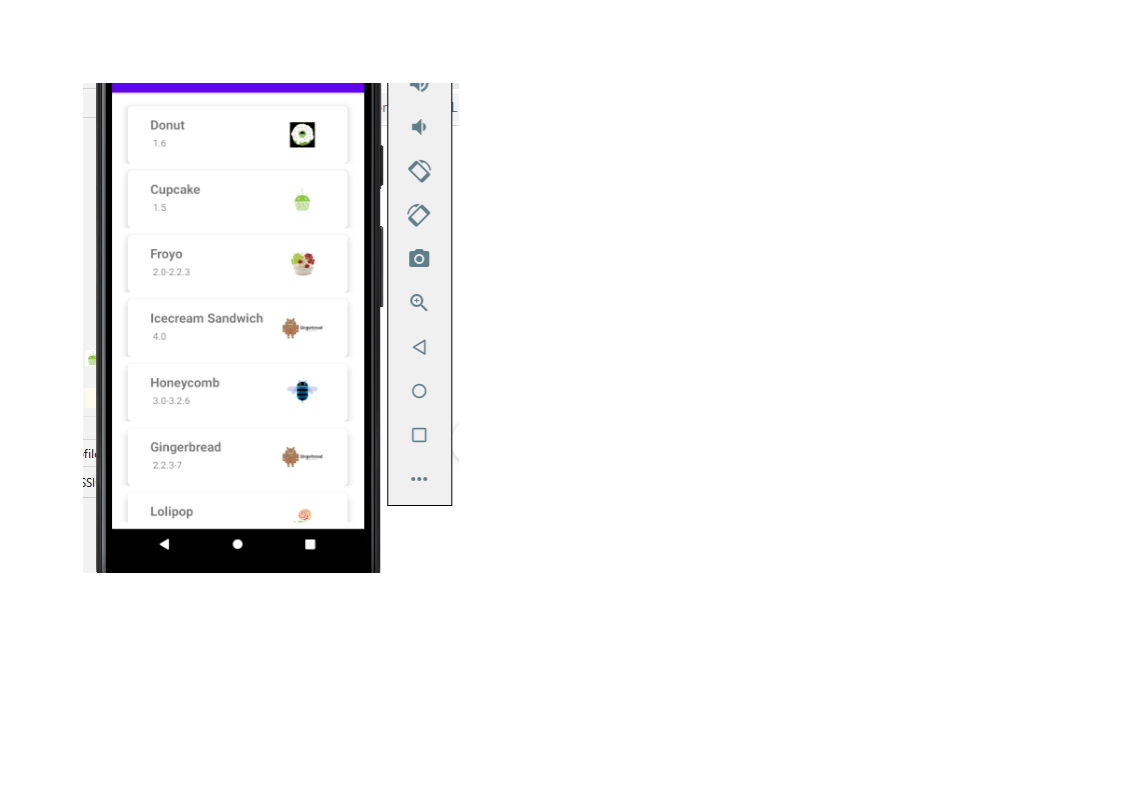
public class Adapter extends RecyclerView.Adapter<Adapter.ViewHolder> {  
 ArrayList<listdata> listdata;  
 private Activity activity;  
 private recyclerInterface recyclerInterface;  
  
  
 public Adapter(ArrayList<listdata> listdata, Activity activity, recyclerInterface recyclerInterface) {  
 this.listdata = listdata;  
 this.activity = activity;  
 this.recyclerInterface = recyclerInterface;  
 }  
  
 @NonNull  
 @Override  
 public Adapter.ViewHolder onCreateViewHolder(@NonNull ViewGroup parent, int viewType) {  
 LayoutInflater layoutInflater = LayoutInflater.*from*(parent.getContext());  
 View listItem = layoutInflater.inflate(R.layout.*list\_items*, parent, false);  
 ViewHolder viewHolder = new ViewHolder(listItem);  
 return viewHolder;  
 }  
  
  
 @Override  
 public void onBindViewHolder(@NonNull ViewHolder holder, int position) {  
 final listdata list = listdata.get(position);  
 holder.versionName.setText(list.getVersionName());  
 holder.versionNum.setText(list.getVersionNum());  
 holder.ImageView.setImageDrawable(activity.getResources().getDrawable(list.getVersionImage()));  
  
 }  
  
  
 @Override  
 public int getItemCount() {  
 return listdata.size();  
 }  
  
 public class ViewHolder extends RecyclerView.ViewHolder {  
 public TextView versionName, versionNum;  
 public ImageView ImageView;  
  
 public ViewHolder(View itemView) {  
 super(itemView);  
 versionName = (TextView) itemView.findViewById(R.id.*versionName*);  
 versionNum = (TextView) itemView.findViewById(R.id.*versionNum*);  
 ImageView = (ImageView) itemView.findViewById(R.id.*versionImage*);  
 versionName.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 recyclerInterface.onItemClick(getAdapterPosition(), v);  
 }  
 });  
 }  
  
  
 }  
}

**LIST DATA(JAVA FILE)-**

public class listdata {  
  
 private String versionName;  
 private String versionNum;  
 private int versionImage;  
  
 public listdata(String versionName, String versionNum, int versionImage) {  
 this.versionName = versionName;  
 this.versionNum = versionNum;  
 this.versionImage = versionImage;  
 }  
  
 public String getVersionName() {  
 return versionName;  
 }  
  
 public void setVersionName(String versionName) {  
 this.versionName = versionName;  
 }  
  
 public String getVersionNum() {  
 return versionNum;  
 }  
  
 public void setVersionNum(String versionNum) {  
 this.versionNum = versionNum;  
 }  
  
 public int getVersionImage() {  
 return versionImage;  
 }  
  
 public void setVersionImage(int versionImage) {  
 this.versionImage = versionImage;  
 }  
}

**RECYCLER INTERFACE-**

public interface recyclerInterface {  
 void onItemClick(int position, View view);  
}

****

**5. SUM:**

**XML FILE:**

<?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"

android:orientation="vertical"

tools:context=".MainActivity">

<EditText

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="Enter No.1 :"

android:id="@+id/etno1"

android:textSize="25sp"/>

<EditText

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="Enter No.2 :"

android:id="@+id/etno2"

android:textSize="25sp"/>

<Button

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Addition"

android:id="@+id/btn"

android:textSize="20sp"

android:layout\_gravity="center"/>

</LinearLayout>

**MAIN ACTIVITY.JAVA FILE**:

package com.raj\_shah.sum\_of\_2\_numbers;

import androidx.appcompat.app.AppCompatActivity;

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 {

Button btn;

EditText etno1,etno2;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

etno1=findViewById(R.id.etno1);

etno2=findViewById(R.id.etno2);

btn=findViewById(R.id.btn);

btn.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

String num1=etno1.getText().toString();

String num2=etno2.getText().toString();

int a=Integer.parseInt(num1);

int b=Integer.parseInt(num2);

Toast.makeText(MainActivity.this, "Addition is :" + (a+b), Toast.LENGTH\_LONG).show();

}

});

}

}

**6. SPLASH SCREEN:**

**ACTIVITY.XML FILE:**

<?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"

android:orientation="vertical"

android:gravity="center"

tools:context=".MainActivity">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Hello World!"

android:textSize="50sp"/>

</LinearLayout>

**SPLASH.XML FILE:**

<?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"

android:orientation="vertical"

android:gravity="center"

tools:context=".SplashActivity"

android:background="#87CEFA">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Welcome to Android Studio!"

android:textSize="50sp"

android:textColor="@android:color/black"

android:gravity="center"/>

</LinearLayout>

**MAINACTIVITY.JAVA:**

package com.krina\_rajvi.splash\_screen;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.media.MediaPlayer;

import android.os.Bundle;

public class MainActivity extends AppCompatActivity {

MediaPlayer mediaPlayer;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

mediaPlayer=MediaPlayer.create(MainActivity.this,R.raw.sound1);

mediaPlayer.start();

Thread thread=new Thread(){

@Override

public void run() {

try {

sleep(2500);

} catch (InterruptedException e) {

e.printStackTrace();

}

finally {

Intent intent=new Intent(MainActivity.this,SplashActivity.class);

startActivity(intent);

}

}

};

thread.start();

}

@Override

protected void onPause() {

super.onPause();

mediaPlayer.release();

finish();

}

}

**SPLASHACTIVITY.JAVA:**

package com.krina\_rajvi.splash\_screen;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

public class SplashActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_splash);

}

}

**7. WEB VIEW:**

**ACTIVITY\_MAIN FILE:**

<?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"

android:orientation="vertical"

tools:context=".MainActivity">

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:orientation="horizontal"

android:padding="10dp">

<EditText

android:layout\_width="300dp"

android:layout\_height="wrap\_content"

android:hint="Search URL"

android:id="@+id/etsearch"

android:textSize="20sp"/>

<Button

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="SEARCH"

android:id="@+id/btnsearch"

android:textSize="15sp"

android:layout\_marginLeft="10dp"/>

</LinearLayout>

<WebView

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:id="@+id/webView"/>

</LinearLayout>

**MAINACTIVITY.JAVA FILE:**

package com.krina\_rajvi.webview;

import androidx.appcompat.app.AppCompatActivity;

import android.content.SharedPreferences;

import android.os.Bundle;

import android.view.View;

import android.webkit.WebView;

import android.webkit.WebViewClient;

import android.widget.Button;

import android.widget.EditText;

public class MainActivity extends AppCompatActivity implements View.OnClickListener {

EditText etsearch;

Button btnsearch;

WebView webView;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

etsearch=findViewById(R.id.etsearch);

btnsearch=findViewById(R.id.btnsearch);

webView=findViewById(R.id.webView);

btnsearch.setOnClickListener(this);

}

@Override

public void onClick(View v) {

switch (v.getId()){

case R.id.btnsearch:

String URL=etsearch.getText().toString();

webView.getSettings().setJavaScriptEnabled(true);

webView.setWebViewClient(new MyWebViewClient());

webView.loadUrl(URL);

break;

}

}

private class MyWebViewClient extends WebViewClient {

@Override

public boolean shouldOverrideUrlLoading(WebView view, String url) {

view.loadUrl(url);

return true;

}

}

}

**8. AUDIO PLAYER:**

**ACTIVITY\_MAIN.XML FILE:**

<?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"

android:orientation="vertical"

android:gravity="center"

tools:context=".MainActivity">

<TextView

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Play Music"

android:gravity="center"

android:textSize="30dp"

android:textColor="@android:color/black"

android:layout\_marginBottom="30dp"/>

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center">

<ImageButton

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:id="@+id/btnbackward"

android:src="@android:drawable/ic\_media\_rew"

android:layout\_marginRight="10dp"/>

<ImageButton

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:id="@+id/btnplay"

android:src="@android:drawable/ic\_media\_play"

android:layout\_marginLeft="10dp"

android:layout\_marginRight="10dp"/>

<ImageButton

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:id="@+id/btnpause"

android:src="@android:drawable/ic\_media\_pause"

android:layout\_marginLeft="10dp"

android:layout\_marginRight="10dp"/>

<ImageButton

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:id="@+id/btnforward"

android:src="@android:drawable/ic\_media\_ff"

android:layout\_marginLeft="10dp"/>

</LinearLayout>

<TextView

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="0 min, 0 sec"

android:id="@+id/tvstarttime"

android:textSize="20sp"

android:layout\_marginTop="20dp"

android:layout\_marginBottom="20dp"/>

<SeekBar

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:id="@+id/seekbar"/>

<TextView

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="0 min, 0 sec"

android:id="@+id/tvsongtime"

android:textSize="20sp"

android:layout\_marginTop="20dp"/>

</LinearLayout>

**MAINACTIVITY.JAVA FILE:**

package com.krina\_rajvi.audioplayer;

import androidx.appcompat.app.AppCompatActivity;

import android.media.MediaPlayer;

import android.os.Bundle;

import android.os.Handler;

import android.view.View;

import android.widget.ImageButton;

import android.widget.SeekBar;

import android.widget.TextView;

import android.widget.Toast;

import java.util.concurrent.TimeUnit;

public class MainActivity extends AppCompatActivity {

ImageButton btnbackward,btnplay,btnpause,btnforward;

TextView tvstarttime,tvsongtime;

SeekBar seekbar;

MediaPlayer mediaPlayer;

static int otime=0, stime=0, etime=0, ftime=5000, btime=5000;

Handler handler=new Handler();

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

btnbackward=findViewById(R.id.btnbackward);

btnplay=findViewById(R.id.btnplay);

btnpause=findViewById(R.id.btnpause);

btnforward=findViewById(R.id.btnforward);

tvstarttime=findViewById(R.id.tvstarttime);

tvsongtime=findViewById(R.id.tvsongtime);

seekbar=findViewById(R.id.seekbar);

btnpause.setEnabled(false);

seekbar.setClickable(false);

mediaPlayer=MediaPlayer.create(this,R.raw.mysong);

btnplay.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

Toast.makeText(MainActivity.this, "Playing Audio", Toast.LENGTH\_SHORT).show();

mediaPlayer.start();

stime=mediaPlayer.getCurrentPosition();

etime=mediaPlayer.getDuration();

if (otime==0){

seekbar.setMax(etime);

otime=1;

}

tvstarttime.setText(String.format("%d min, %d sec", TimeUnit.MILLISECONDS.toMinutes(stime), TimeUnit.MILLISECONDS.toSeconds(stime)-TimeUnit.MINUTES.toSeconds(TimeUnit.MILLISECONDS.toMinutes(stime))));

tvsongtime.setText(String.format("%d min, %d sec", TimeUnit.MILLISECONDS.toMinutes(etime), TimeUnit.MILLISECONDS.toSeconds(etime)-TimeUnit.MINUTES.toSeconds(TimeUnit.MILLISECONDS.toMinutes(etime))));

seekbar.setProgress(stime);

handler.postDelayed(UpdateSongTime,100);

btnpause.setEnabled(true);

btnplay.setEnabled(false);

}

});

btnpause.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

mediaPlayer.pause();

btnpause.setEnabled(false);

btnplay.setEnabled(true);

Toast.makeText(MainActivity.this, "Audio Paused", Toast.LENGTH\_SHORT).show();

}

});

btnforward.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

if ((stime+ftime)<=etime){

stime=stime+ftime;

mediaPlayer.seekTo(stime);

}

else {

Toast.makeText(MainActivity.this, "Cannot Jump Forward for 5 Seconds", Toast.LENGTH\_SHORT).show();

}

if (btnplay.isEnabled()){

btnplay.setEnabled(true);

}

}

});

btnbackward.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

if ((stime-btime)>0){

stime=stime-btime;

mediaPlayer.seekTo(stime);

}

else {

Toast.makeText(MainActivity.this, "Cannot Jump Backward for 5 Seconds", Toast.LENGTH\_SHORT).show();

}

if (btnplay.isEnabled()){

btnplay.setEnabled(true);

}

}

});

}

private Runnable UpdateSongTime=new Runnable() {

@Override

public void run() {

stime=mediaPlayer.getCurrentPosition();

tvstarttime.setText(String.format("%d min, %d sec", TimeUnit.MILLISECONDS.toMinutes(stime), TimeUnit.MILLISECONDS.toSeconds(stime)-TimeUnit.MINUTES.toSeconds(TimeUnit.MILLISECONDS.toMinutes(stime))));

seekbar.setProgress(stime);

handler.postDelayed(this,100);

}

};

}

**9. AUDIO PLAYER:**

**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"

android:orientation="vertical"

tools:context=".MainActivity">

<TextView

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Video Player"

android:textSize="35sp"

android:gravity="center"

android:textColor="@android:color/black"

android:layout\_marginTop="20dp"

android:layout\_marginBottom="20dp"/>

<VideoView

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:id="@+id/videoview"/>

</LinearLayout>

**MAINACTIVITY.JAVA:**

package com.krina\_rajvi.videoplayer;

import androidx.appcompat.app.AppCompatActivity;

import android.media.MediaPlayer;

import android.net.Uri;

import android.os.Bundle;

import android.widget.MediaController;

import android.widget.Toast;

import android.widget.VideoView;

import java.net.URI;

public class MainActivity extends AppCompatActivity {

VideoView videoview;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

videoview=findViewById(R.id.videoview);

MediaController mediaController=new MediaController(this);

mediaController.setAnchorView(videoview);

Uri uri=Uri.parse("android.resource://" + getPackageName() + "/" + R.raw.myvideo);

videoview.setMediaController(mediaController);

videoview.setVideoURI(uri);

videoview.requestFocus();

videoview.start();

videoview.setOnCompletionListener(new MediaPlayer.OnCompletionListener() {

@Override

public void onCompletion(MediaPlayer mp) {

Toast.makeText(MainActivity.this, "Thank You...", Toast.LENGTH\_SHORT).show();

}

});

videoview.setOnErrorListener(new MediaPlayer.OnErrorListener() {

@Override

public boolean onError(MediaPlayer mp, int what, int extra) {

Toast.makeText(MainActivity.this, "Error", Toast.LENGTH\_SHORT).show();

return false;

}

});

}

}

**10. EMAIL:**

**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"

android:orientation="vertical"

android:gravity="center"

tools:context=".MainActivity">

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:orientation="horizontal"

android:padding="10dp">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="To :"

android:textSize="20sp"/>

<EditText

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="Enter Sender's Email ID"

android:id="@+id/etemail"

android:inputType="textEmailAddress"

android:gravity="center"

android:textSize="20sp"/>

</LinearLayout>

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:orientation="horizontal"

android:layout\_marginTop="20dp"

android:layout\_marginBottom="20dp"

android:padding="10dp">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Subject :"

android:textSize="20sp"/>

<EditText

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="Enter Subject"

android:id="@+id/etsubject"

android:gravity="center"

android:textSize="20sp"/>

</LinearLayout>

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:orientation="horizontal"

android:padding="10dp">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Message :"

android:textSize="20sp"/>

<EditText

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="Enter Message"

android:id="@+id/etmessage"

android:gravity="center"

android:textSize="20sp"/>

</LinearLayout>

<Button

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="SEND"

android:id="@+id/btnsend"

android:textSize="15sp"

android:layout\_marginTop="50dp"

android:layout\_marginLeft="75dp"/>

</LinearLayout>

**MAINACTIVITY JAVA.FILE:**

package com.krina\_rajvi.email;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

public class MainActivity extends AppCompatActivity {

EditText etemail,etsubject,etmessage;

Button btnsend;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

etemail=findViewById(R.id.etemail);

etsubject=findViewById(R.id.etsubject);

etmessage=findViewById(R.id.etmessage);

btnsend=findViewById(R.id.btnsend);

btnsend.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

String to=etemail.getText().toString();

String subject=etsubject.getText().toString();

String message=etmessage.getText().toString();

Intent intent=new Intent(Intent.ACTION\_SEND);

intent.putExtra(Intent.EXTRA\_EMAIL, new String[]{to});

intent.putExtra(Intent.EXTRA\_SUBJECT, subject);

intent.putExtra(Intent.EXTRA\_TEXT, message);

intent.setType("message/rfc822");

startActivity(Intent.createChooser(intent, "Send email :"));

}

});

}

}