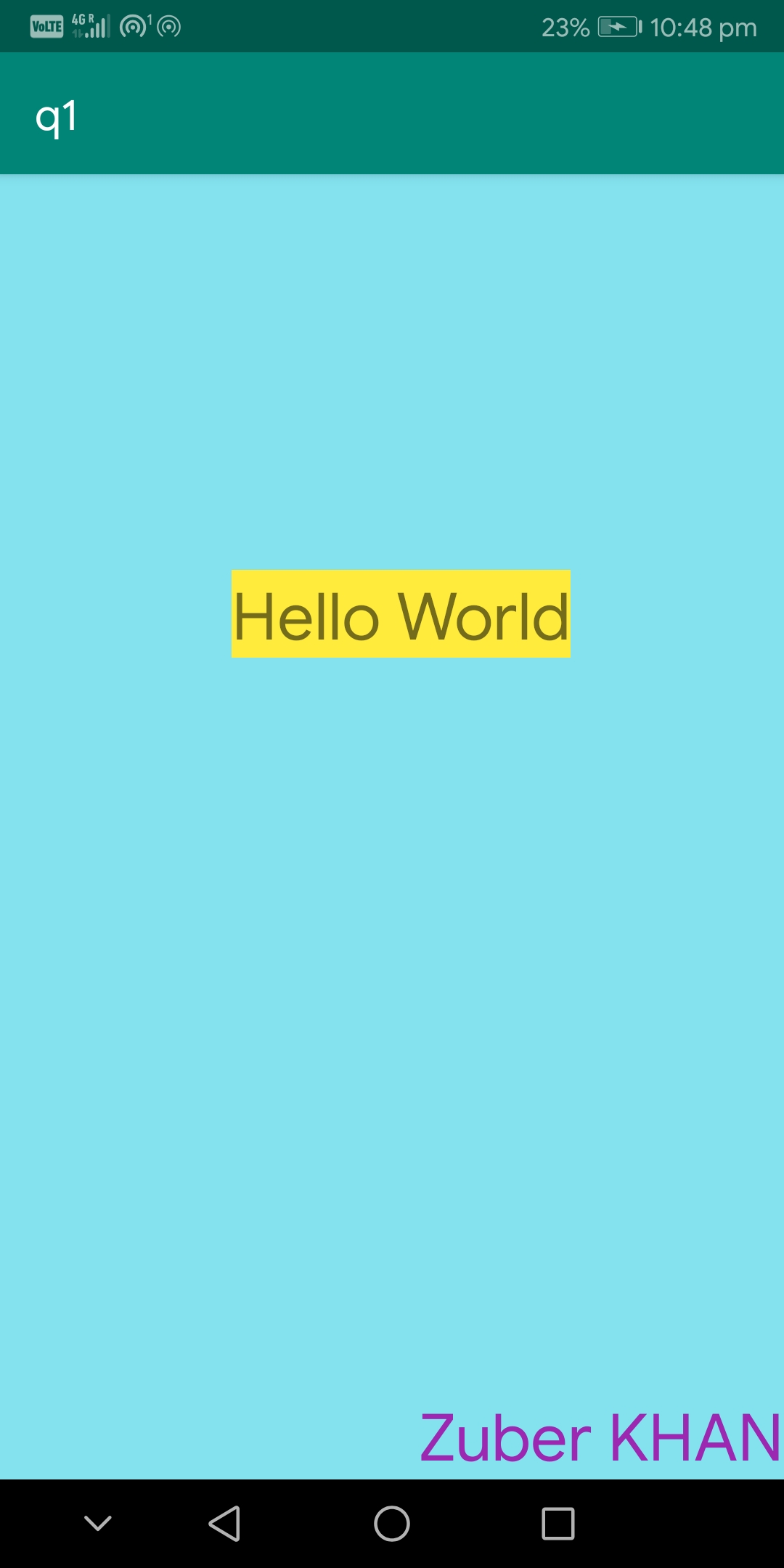
# \*\*\*\*\*Q1.HELLO WORLD\*\*\*\*\*



MainActivity.java

**package** com.example.q1;

**import** androidx.appcompat.app.AppCompatActivity;

**import** android.os.Bundle;

**public class** MainActivity **extends** AppCompatActivity {

@Override

**protected void** onCreate(Bundle savedInstanceState) {

**super**.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

}

}

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"**

**android:background="#83E2EE"**

**tools:context=".MainActivity"**>

<**TextView**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:layout\_marginStart="132dp"**

**android:layout\_marginLeft="132dp"**

**android:layout\_marginTop="308dp"**

**android:layout\_marginEnd="124dp"**

**android:layout\_marginRight="124dp"**

**android:layout\_marginBottom="341dp"**

**android:background="#FFEB3B"**

**android:text="Hello World"**

**android:textSize="30sp"**

**app:layout\_constraintBottom\_toTopOf="@+id/textView"**

**app:layout\_constraintEnd\_toEndOf="parent"**

**app:layout\_constraintStart\_toStartOf="parent"**

**app:layout\_constraintTop\_toTopOf="parent"**

**app:layout\_constraintVertical\_bias="1.0"** />

<**TextView**

**android:id="@+id/textView"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:text="Zuber KHAN"**

**android:textAppearance="@style/TextAppearance.AppCompat.Medium"**

**android:textColor="#9C27B0"**

**android:textSize="30sp"**

**app:fontFamily="cursive"**

**app:layout\_constraintBottom\_toBottomOf="parent"**

**app:layout\_constraintEnd\_toEndOf="parent"** />

</**androidx.constraintlayout.widget.ConstraintLayout**>

# \*\*\*\*\*Q2.ACTIVITY LIFECYCLE\*\*\*\*\*



MainActivity.java

**package** com.example.q2;

**import** androidx.appcompat.app.AppCompatActivity;

**import** android.os.Bundle;

**import** android.widget.Toast;

**public class** MainActivity **extends** AppCompatActivity {

@Override

**protected void** onCreate(Bundle savedInstanceState) {

**super**.onCreate(savedInstanceState);

setContentView(R.layout.***activity\_main***);

notify(**"onCreate()..."**);

}

**protected void** onStart(){

**super**.onStart();

notify(**"onStart()..."**);

}

**protected void** onResume(){

**super**.onResume();

notify(**"onResume()..."**);

}

**protected void** onPause(){

**super**.onPause();

notify(**"onPause()..."**);

}

**protected void** onStop(){

**super**.onStop();

notify(**"onStop()..."**);

}

**protected void** onRestart(){

**super**.onRestart();

notify(**"onRestart()..."**);

}

**protected void** onDestroy(){

**super**.onDestroy();

notify(**"onDestroy()..."**);

}

**protected void** notify(String s){

Toast.*makeText*(**this**,s,Toast.***LENGTH\_LONG***).show();

}

}

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"**

**android:background="#9ECBEE"**

**tools:context=".MainActivity"**>

<**TextView**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:background="#FFEB3B"**

**android:text="ACTIVITY LIFECYCLE"**

**android:textSize="24sp"**

**app:layout\_constraintBottom\_toBottomOf="parent"**

**app:layout\_constraintLeft\_toLeftOf="parent"**

**app:layout\_constraintRight\_toRightOf="parent"**

**app:layout\_constraintTop\_toTopOf="parent"** />

<**TextView**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:text="Zuber KHAN"**

**android:textColor="#9C27B0"**

**android:textSize="30sp"**

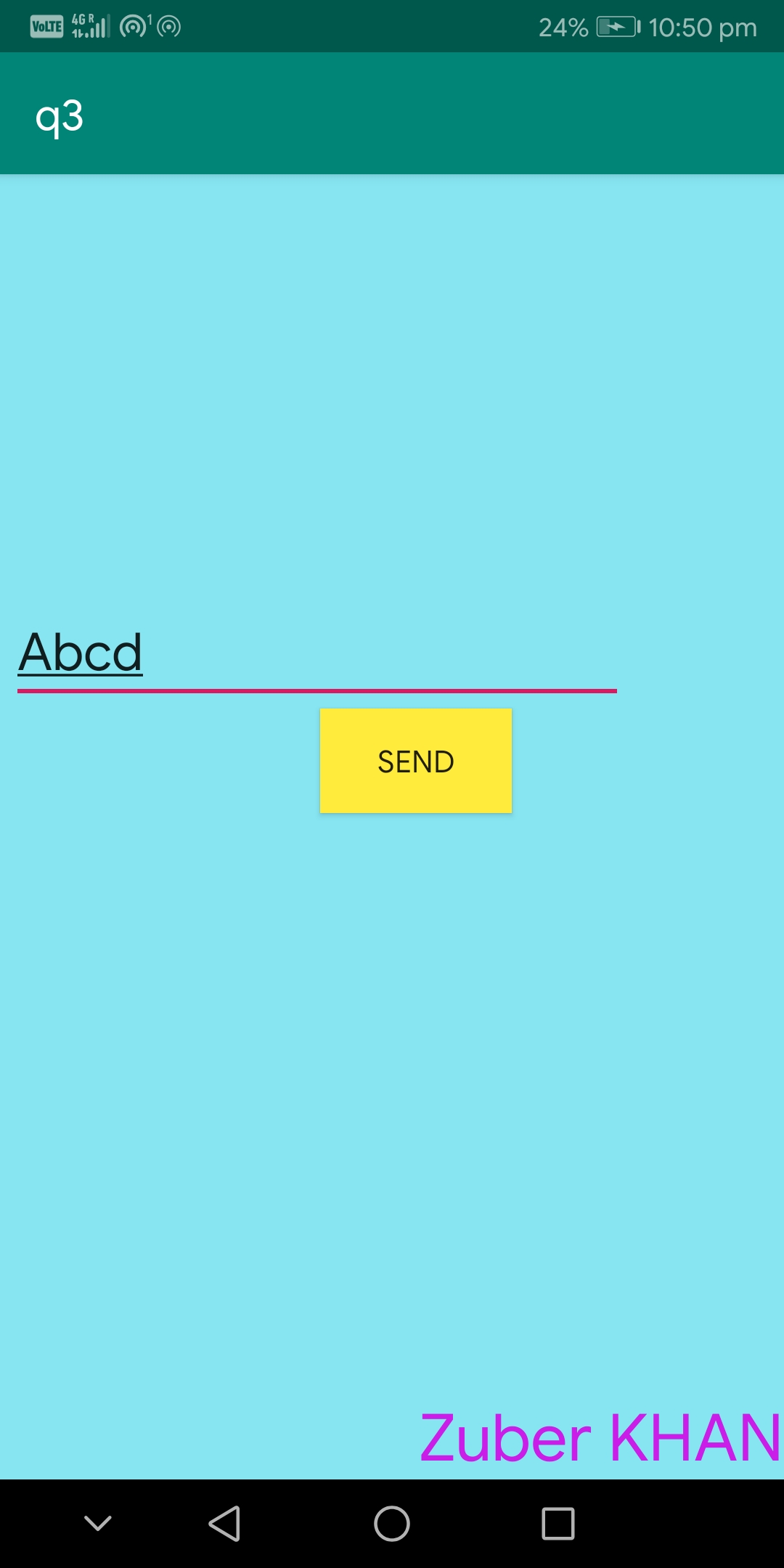
**app:fontFamily="cursive"**

**app:layout\_constraintBottom\_toBottomOf="parent"**

**app:layout\_constraintEnd\_toEndOf="parent"** />

</**androidx.constraintlayout.widget.ConstraintLayout**>

# \*\*\*\*\*Q3. USE OF EXCPLICIT INTENT\*\*\*\*\*



MainActivity.java

**package** com.example.q3;

**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;

**import** android.widget.TextView;

**public class** MainActivity **extends** AppCompatActivity {

Button **bt**;

TextView **tv**;

EditText **et**;

@Override

**protected void** onCreate(Bundle savedInstanceState) {

**super**.onCreate(savedInstanceState);

setContentView(R.layout.***activity\_before***);

**bt**=(Button)findViewById(R.id.***button***);

**et**=(EditText)findViewById(R.id.***editText***);

}

**public void** Press(View v){

Intent in=**new** Intent(**this**,AfterActivity.**class**);

String st=**et**.getText().toString();

in.putExtra(**"Message"**,st);

startActivity(in);

**et**.setText(**""**);

}

}

AfterActivity.java

**package** com.example.q3;

**import** androidx.appcompat.app.AppCompatActivity;

**import** android.content.Intent;

**import** android.os.Bundle;

**import** android.widget.TextView;

**public class** AfterActivity **extends** AppCompatActivity {

TextView **tv**;

@Override

**protected void** onCreate(Bundle savedInstanceState) {

**super**.onCreate(savedInstanceState);

setContentView(R.layout.***activity\_after***);

**tv**=(TextView)findViewById(R.id.***textView***);

Intent in=getIntent();

String st=in.getStringExtra(**"Message"**);

**tv**.setText(st);

}

}

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"**

**android:background="#86E5F1"**

**tools:context=".MainActivity"**>

<**TextView**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:text="Zuber KHAN"**

**android:textColor="#CA1DE7"**

**android:textSize="30sp"**

**app:fontFamily="cursive"**

**app:layout\_constraintBottom\_toBottomOf="parent"**

**app:layout\_constraintRight\_toRightOf="parent"** />

<**Button**

**android:id="@+id/button"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:layout\_marginEnd="125dp"**

**android:layout\_marginRight="125dp"**

**android:background="#FFEB3B"**

**android:onClick="Press"**

**android:text="Send"**

**app:layout\_constraintEnd\_toEndOf="parent"**

**app:layout\_constraintTop\_toBottomOf="@+id/editText"** />

<**EditText**

**android:id="@+id/editText"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:layout\_marginStart="4dp"**

**android:layout\_marginLeft="4dp"**

**android:layout\_marginTop="192dp"**

**android:ems="10"**

**android:hint="Message"**

**android:inputType="textPersonName"**

**android:textSize="24sp"**

**app:layout\_constraintStart\_toStartOf="parent"**

**app:layout\_constraintTop\_toTopOf="parent"** />

</**androidx.constraintlayout.widget.ConstraintLayout**>

activity\_after.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"**

**android:background="#FFEB3B"**

**tools:context=".AfterActivity"**>

<**TextView**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:text="Zuber KHAN"**

**android:textColor="#CA1DE7"**

**android:textSize="30sp"**

**app:fontFamily="cursive"**

**app:layout\_constraintBottom\_toBottomOf="parent"**

**app:layout\_constraintRight\_toRightOf="parent"** />

<**TextView**

**android:id="@+id/textView"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:layout\_marginStart="143dp"**

**android:layout\_marginLeft="143dp"**

**android:layout\_marginTop="193dp"**

**android:layout\_marginEnd="145dp"**

**android:layout\_marginRight="145dp"**

**android:layout\_marginBottom="497dp"**

**android:background="#5BD0DF"**

**android:text="TextView"**

**android:textSize="30sp"**

**app:layout\_constraintBottom\_toBottomOf="parent"**

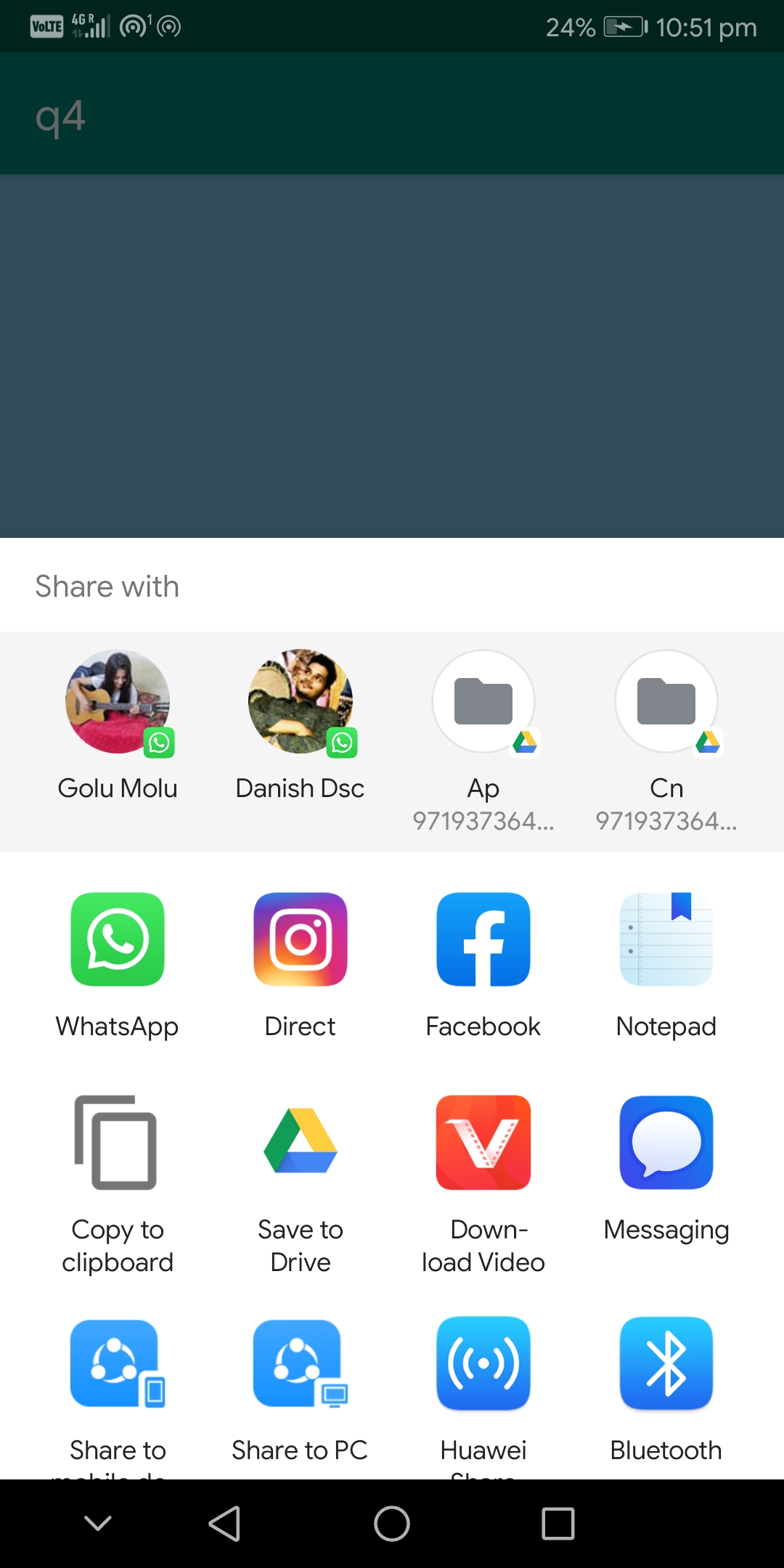
**app:layout\_constraintEnd\_toEndOf="parent"**

**app:layout\_constraintStart\_toStartOf="parent"**

**app:layout\_constraintTop\_toTopOf="parent"** />

</**androidx.constraintlayout.widget.ConstraintLayout**>

# \*\*\*\*\*Q4. USE OF IMPLICIT INTENT\*\*\*\*\*



MainActivity.java

**package** com.example.q4;

**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;

**import** android.widget.TextView;

**public class** MainActivity **extends** AppCompatActivity {

Button **bt**;

TextView **tv**;

EditText **et**;

@Override

**protected void** onCreate(Bundle savedInstanceState) {

**super**.onCreate(savedInstanceState);

setContentView(R.layout.***activity\_main***);

**bt** = (Button) findViewById(R.id.***button***);

**et** = (EditText) findViewById(R.id.***editText***);

}

**public void** Press(View v){

Intent in = **new** Intent();

in.setAction(Intent.***ACTION\_SEND***);

String st = **et**.getText().toString();

in.putExtra(Intent.***EXTRA\_TEXT***, st);

in.setType(**"text/\*"**);

Intent si=Intent.*createChooser*(in,**null**);

startActivity(si);

**et**.setText(**""**);

}

}

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"**

**android:background="#7BC1E0"**

**android:focusableInTouchMode="true"**

**tools:context=".MainActivity"**>

<**EditText**

**android:id="@+id/editText"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:layout\_marginStart="4dp"**

**android:layout\_marginLeft="4dp"**

**android:layout\_marginTop="192dp"**

**android:ems="10"**

**android:hint="Message"**

**android:inputType="textPersonName"**

**android:textSize="24sp"**

**app:layout\_constraintStart\_toStartOf="parent"**

**app:layout\_constraintTop\_toTopOf="parent"** />

<**Button**

**android:id="@+id/button"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:layout\_marginEnd="125dp"**

**android:layout\_marginRight="125dp"**

**android:background="#FFEB3B"**

**android:onClick="Press"**

**android:text="Send"**

**app:layout\_constraintEnd\_toEndOf="parent"**

**app:layout\_constraintTop\_toBottomOf="@+id/editText"** />

<**TextView**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:text="Zuber KHAN"**

**android:textColor="#CA1DE7"**

**android:textSize="30sp"**

**app:fontFamily="cursive"**

**app:layout\_constraintBottom\_toBottomOf="parent"**

**app:layout\_constraintRight\_toRightOf="parent"** />

</**androidx.constraintlayout.widget.ConstraintLayout**>

# \*\*\*\*\*Q5.SPINNER \*\*\*\*\*

MainActivity.java

**package** com.example.q5;

**import** androidx.appcompat.app.AppCompatActivity;

**import** android.content.Context;

**import** android.graphics.Color;

**import** android.os.Bundle;

**import** android.view.View;

**import** android.widget.AdapterView;

**import** android.widget.ArrayAdapter;

**import** android.widget.Spinner;

**import** android.widget.TextView;

**import** java.util.ArrayList;

**import** java.util.List;

**public class** MainActivity **extends** AppCompatActivity **implements** AdapterView.OnItemSelectedListener {

Spinner **sp**;

@Override

**public void** onCreate(Bundle savedInstanceState) {

**super**.onCreate(savedInstanceState);

setContentView(R.layout.***activity\_main***);

**sp**=(Spinner)findViewById(R.id.***spinner***);

**sp**.setOnItemSelectedListener(**this**);

List<String> color=**new** ArrayList<String>();

color.add(**"Red"**);

color.add(**"Blue"**);

color.add(**"Green"**);

ArrayAdapter<String> arrayAdapter=**new** ArrayAdapter<String>(**this**,R.layout.***support\_simple\_spinner\_dropdown\_item***,color);

arrayAdapter.setDropDownViewResource(R.layout.***support\_simple\_spinner\_dropdown\_item***);

**sp**.setAdapter(arrayAdapter);

}

@Override

**public void** onItemSelected(AdapterView<?> parent, View view,**int** pos, **long** id) {

**if**(pos==0)

getWindow().getDecorView().setBackgroundColor(Color.***RED***);

**if**(pos==1)

getWindow().getDecorView().setBackgroundColor(Color.***BLUE***);

**if**(pos==2)

getWindow().getDecorView().setBackgroundColor(Color.***GREEN***);

}

@Override

**public void** onNothingSelected(AdapterView<?> parent) {

}

}

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:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:text="Zuber KHAN"**

**android:textColor="#CA1DE7"**

**android:textSize="30sp"**

**app:fontFamily="cursive"**

**app:layout\_constraintBottom\_toBottomOf="parent"**

**app:layout\_constraintRight\_toRightOf="parent"** />

<**TextView**

**android:id="@+id/textView"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:layout\_marginTop="150dp"**

**android:text="Screens"**

**android:textSize="24sp"**

**app:layout\_constraintStart\_toStartOf="parent"**

**app:layout\_constraintTop\_toTopOf="parent"** />

<**Spinner**

**android:id="@+id/spinner"**

**android:layout\_width="409dp"**

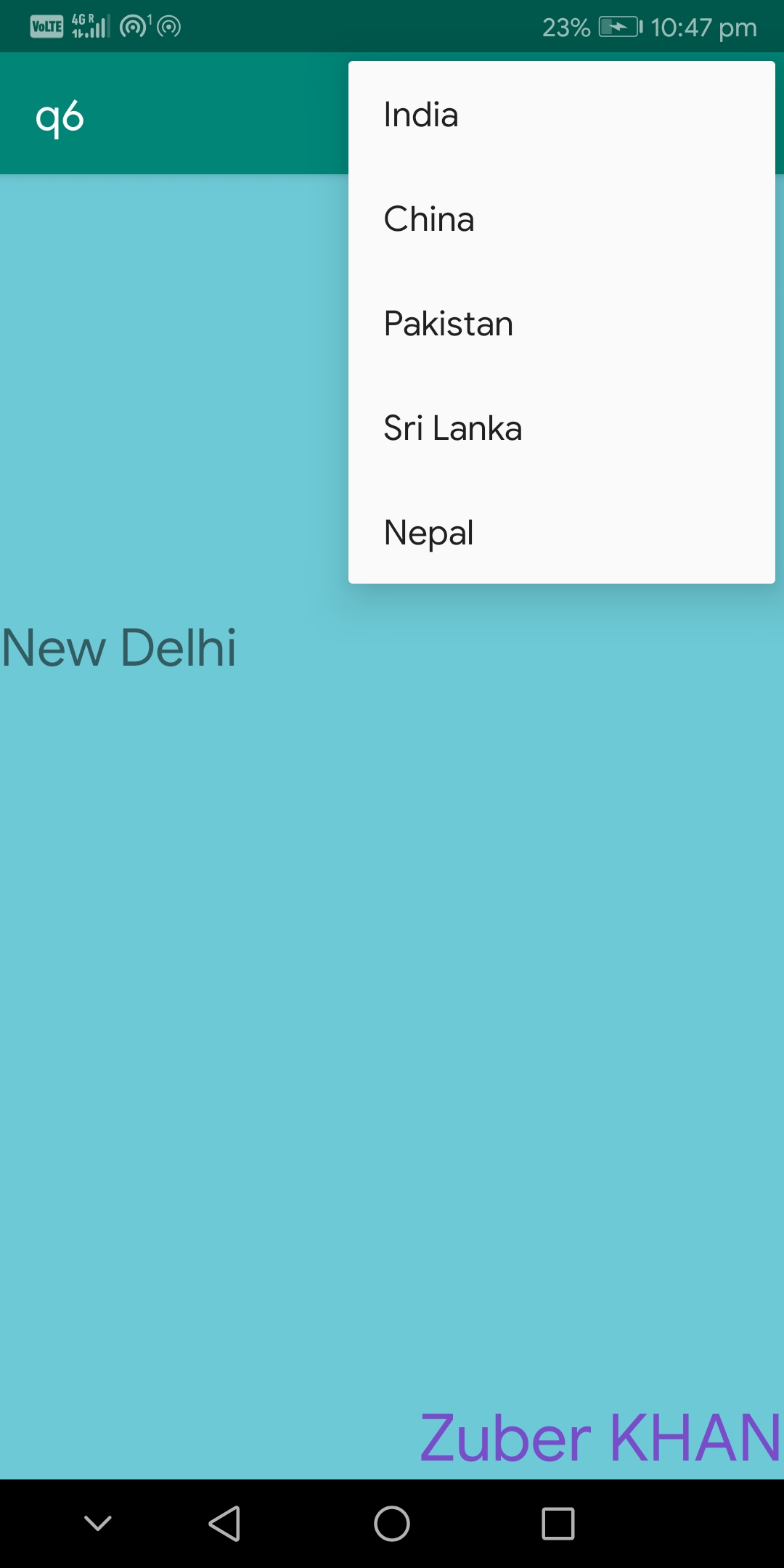
**android:layout\_height="wrap\_content"**

**app:layout\_constraintStart\_toStartOf="parent"**

**app:layout\_constraintTop\_toBottomOf="@+id/textView"** />

</**androidx.constraintlayout.widget.ConstraintLayout**>

# \*\*\*\*\*Q6.OPTION MENU\*\*\*\*\*



MainActivity.java

**package** com.example.q6;

**import** androidx.appcompat.app.AppCompatActivity;

**import** android.os.Bundle;

**import** android.view.Menu;

**import** android.view.MenuInflater;

**import** android.view.MenuItem;

**import** android.widget.ImageView;

**import** android.widget.TextView;

**public class** MainActivity **extends** AppCompatActivity {

TextView **tv**;

@Override

**protected void** onCreate(Bundle savedInstanceState) {

**super**.onCreate(savedInstanceState);

setContentView(R.layout.***activity\_main***);

**tv**=(TextView) findViewById(R.id.***textView***);

}

**public boolean** onCreateOptionsMenu(Menu menu)

{

MenuInflater mi=getMenuInflater();

mi.inflate(R.menu.***menu***,menu);

**return true**;

}

**public boolean** onOptionsItemSelected(MenuItem im)

{

**switch** (im.getItemId())

{

**case** R.id.***in***:

**tv**.setText(**"New Delhi"**); **break**;

**case** R.id.***pk***:

**tv**.setText(**"Islamabad"**); **break**;

**case** R.id.***ch***:

**tv**.setText(**"Beijing"**); **break**;

**case** R.id.***sl***:

**tv**.setText(**"Colombo"**); **break**;

**case** R.id.***np***:

**tv**.setText(**"Kathmando"**); **break**;

}

**return true**;

}

}

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"**

**android:background="#6CC9D5"**

**tools:context=".MainActivity"**>

<**TextView**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:text="Zuber KHAN"**

**android:textColor="#794DC9"**

**android:textSize="30sp"**

**app:fontFamily="cursive"**

**app:layout\_constraintBottom\_toBottomOf="parent"**

**app:layout\_constraintRight\_toRightOf="parent"** />

<**TextView**

**android:id="@+id/textView"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:layout\_marginTop="200dp"**

**android:hint="Capitals..."**

**android:textSize="24sp"**

**app:layout\_constraintStart\_toStartOf="parent"**

**app:layout\_constraintTop\_toTopOf="parent"** />

</**androidx.constraintlayout.widget.ConstraintLayout**>

activity\_menu.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:id="@+id/in"**

**android:title="India"** />

<**item**

**android:id="@+id/ch"**

**android:title="China"** />

<**item**

**android:id="@+id/pk"**

**android:title="Pakistan"** />

<**item**

**android:id="@+id/sl"**

**android:title="Sri Lanka"** />

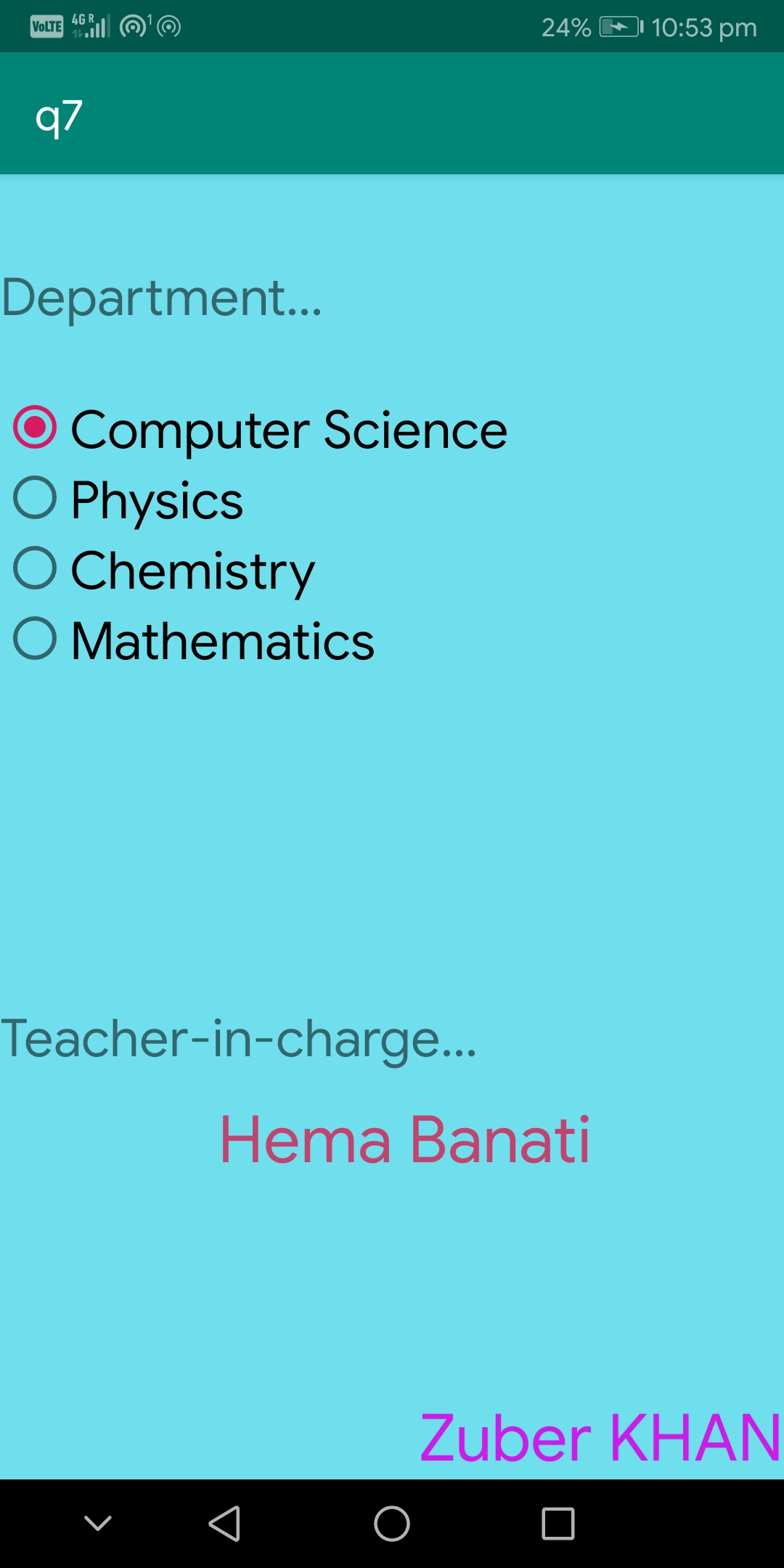
<**item**

**android:id="@+id/np"**

**android:title="Nepal"** />

</**menu**>

# \*\*\*\*\*Q7.RADIO BUTTON\*\*\*\*\*



MainActivity.java

**package** com.example.q7;

**import** androidx.appcompat.app.AppCompatActivity;

**import** android.os.Bundle;

**import** android.view.View;

**import** android.widget.RadioButton;

**import** android.widget.RadioGroup;

**import** android.widget.TextView;

**import** android.widget.Toast;

**public class** MainActivity **extends** AppCompatActivity {

RadioButton **r1**,**r2**,**r3**,**r4**;

TextView **tv**;

@Override

**protected void** onCreate(Bundle savedInstanceState) {

**super**.onCreate(savedInstanceState);

setContentView(R.layout.***activity\_main***);

**r1**=(RadioButton)findViewById(R.id.***radioButton1***);

**r2**=(RadioButton)findViewById(R.id.***radioButton2***);

**r3**=(RadioButton)findViewById(R.id.***radioButton3***);

**r4**=(RadioButton)findViewById(R.id.***radioButton4***);

**tv**=(TextView)findViewById(R.id.***textView***);

}

**public void** radio(View v){

RadioGroup rg1=(RadioGroup)findViewById(R.id.***rg***);

**int** id=rg1.getCheckedRadioButtonId();

**switch**(id)

{

**case** R.id.***radioButton1***:

notify(**"Hema Banati"**);

**break**;

**case** R.id.***radioButton2***:

notify(**"Renu Guliani"**);

**break**;

**case** R.id.***radioButton3***:

notify(**"Indra Raj Kumawat"**);

**break**;

**case** R.id.***radioButton4***:

notify(**"Rajeev Kumar"**);

**break**;

}

}

**public void** notify(String s){

**tv**.setText(s);

}

}

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"**

**android:background="#6FDFEE"**

**tools:context=".MainActivity"**>

<**TextView**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:text="Zuber KHAN"**

**android:textColor="#CA1DE7"**

**android:textSize="30sp"**

**app:fontFamily="cursive"**

**app:layout\_constraintBottom\_toBottomOf="parent"**

**app:layout\_constraintRight\_toRightOf="parent"** />

<**TextView**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:layout\_marginTop="20dp"**

**android:layout\_marginBottom="10dp"**

**android:text="Department..."**

**android:textSize="24sp"**

**app:layout\_constraintBottom\_toTopOf="@+id/rg"**

**app:layout\_constraintStart\_toStartOf="parent"**

**app:layout\_constraintTop\_toTopOf="parent"** />

<**TextView**

**android:id="@+id/textView5"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:layout\_marginTop="150dp"**

**android:text="Teacher-in-charge..."**

**android:textSize="24sp"**

**app:layout\_constraintStart\_toStartOf="parent"**

**app:layout\_constraintTop\_toBottomOf="@+id/rg"** />

<**TextView**

**android:id="@+id/textView"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:layout\_marginStart="100dp"**

**android:layout\_marginLeft="100dp"**

**android:layout\_marginTop="10dp"**

**android:textColor="#C2436E"**

**android:textSize="30sp"**

**app:layout\_constraintStart\_toStartOf="parent"**

**app:layout\_constraintTop\_toBottomOf="@+id/textView5"** />

<**RadioGroup**

**android:id="@+id/rg"**

**android:layout\_width="fill\_parent"**

**android:layout\_height="wrap\_content"**

**android:layout\_marginTop="100dp"**

**app:layout\_constraintEnd\_toEndOf="parent"**

**app:layout\_constraintHorizontal\_bias="1.0"**

**app:layout\_constraintStart\_toStartOf="parent"**

**app:layout\_constraintTop\_toTopOf="parent"**>

<**RadioButton**

**android:id="@+id/radioButton1"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:onClick="radio"**

**android:text="Computer Science"**

**android:textSize="24sp"** />

<**RadioButton**

**android:id="@+id/radioButton2"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:onClick="radio"**

**android:text="Physics"**

**android:textSize="24sp"** />

<**RadioButton**

**android:id="@+id/radioButton3"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:onClick="radio"**

**android:text="Chemistry"**

**android:textSize="24sp"** />

<**RadioButton**

**android:id="@+id/radioButton4"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:onClick="radio"**

**android:text="Mathematics"**

**android:textSize="24sp"** />

</**RadioGroup**>

</**androidx.constraintlayout.widget.ConstraintLayout**>

# \*\*\*\*\*Q8,9.BUTTON ALLIGNMENT\*\*\*\*\*

MainActivity.java

**package** com.example.q8;

**import** androidx.appcompat.app.AppCompatActivity;

**import** android.graphics.Color;

**import** android.os.Bundle;

**import** android.view.View;

**import** android.widget.Button;

**import** android.widget.Toast;

**public class** MainActivity **extends** AppCompatActivity {

Button **b1**,**b2**,**b3**;

@Override

**protected void** onCreate(Bundle savedInstanceState) {

**super**.onCreate(savedInstanceState);

setContentView(R.layout.***activity\_main***);

**b1**=(Button)findViewById(R.id.***button1***);

**b2**=(Button)findViewById(R.id.***button2***);

**b3**=(Button)findViewById(R.id.***button3***);

}

**public void** red(View v) {

getWindow().getDecorView().setBackgroundColor(Color.***RED***);

Toast.*makeText*(**this**,**"Red screen"**,Toast.***LENGTH\_LONG***).show();

}

**public void** blue(View v) {

getWindow().getDecorView().setBackgroundColor(Color.***BLUE***);

Toast.*makeText*(**this**,**"Blue screen"**,Toast.***LENGTH\_LONG***).show();

}

**public void** green(View v) {

getWindow().getDecorView().setBackgroundColor(Color.***GREEN***);

Toast.*makeText*(**this**,**"Green screen"**,Toast.***LENGTH\_LONG***).show();

}

}

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"**>

<**Button**

**android:id="@+id/button3"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:layout\_marginTop="100dp"**

**android:onClick="green"**

**android:text="GREEN"**

**android:textColor="#0BA011"**

**app:layout\_constraintStart\_toEndOf="@+id/button2"**

**app:layout\_constraintTop\_toTopOf="parent"** />

<**TextView**

**android:id="@+id/textView"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:text="Zuber KHAN"**

**android:textColor="#CA1DE7"**

**android:textSize="30sp"**

**app:fontFamily="cursive"**

**app:layout\_constraintBottom\_toBottomOf="parent"**

**app:layout\_constraintRight\_toRightOf="parent"** />

<**Button**

**android:id="@+id/button1"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:layout\_marginStart="50dp"**

**android:layout\_marginLeft="50dp"**

**android:layout\_marginTop="100dp"**

**android:onClick="red"**

**android:text="RED"**

**android:textColor="#E70955"**

**app:layout\_constraintEnd\_toStartOf="@+id/button2"**

**app:layout\_constraintStart\_toStartOf="parent"**

**app:layout\_constraintTop\_toTopOf="parent"** />

<**Button**

**android:id="@+id/button2"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:layout\_marginTop="100dp"**

**android:onClick="blue"**

**android:text="BLUE"**

**android:textColor="#132FC7"**

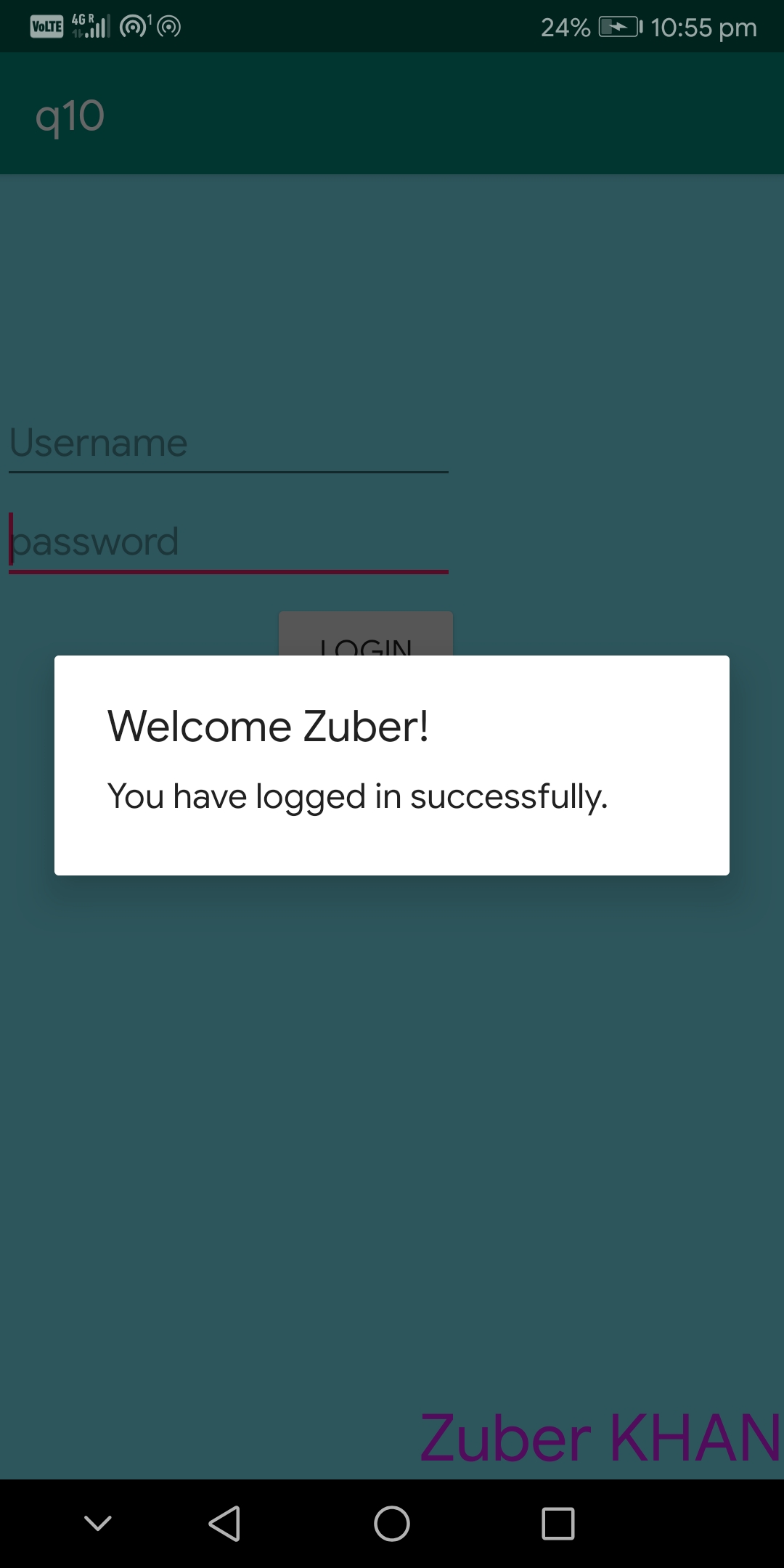
**app:layout\_constraintEnd\_toStartOf="@+id/button3"**

**app:layout\_constraintStart\_toEndOf="@+id/button1"**

**app:layout\_constraintTop\_toTopOf="parent"** />

</**androidx.constraintlayout.widget.ConstraintLayout**>

# \*\*\*\*\*Q10.LOGIN\*\*\*\*\*



MainActivity.java

**package** com.example.q10;

**import** androidx.appcompat.app.AlertDialog;

**import** androidx.appcompat.app.AppCompatActivity;

**import** android.content.DialogInterface;

**import** android.content.DialogInterface.OnClickListener;

**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 {

EditText et1,et2;

Button bt;

@Override

**protected void** onCreate(Bundle savedInstanceState) {

**super**.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

et1=(EditText)findViewById(R.id.editText1);

et2=(EditText)findViewById(R.id.editText2);

bt=(Button)findViewById(R.id.button);

}

**public void** Press(View v){

String uname=et1.getText().toString();

String pass=et2.getText().toString();

**if**(uname.equals(**"Zuber"**)&&pass.equals(**"1687"**)){

String s=**"You have logged in successfully."**;

AlertDialog ad=**new** AlertDialog.Builder(**this**).create();

ad.setTitle(**"Welcome "**+uname+**"!"**);

ad.setMessage(s);

et1.setText(**""**);

et2.setText(**""**);

ad.show();

}

**else**{

Toast.makeText(**this**,**"Invalid password or username."**,Toast.LENGTH\_LONG).show();

}

}

}

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"**

**android:background="#70D8E6"**

**tools:context=".MainActivity"**>

<**TextView**

**android:id="@+id/textView"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:text="Zuber KHAN"**

**android:textColor="#CA1DE7"**

**android:textSize="30sp"**

**app:fontFamily="cursive"**

**app:layout\_constraintBottom\_toBottomOf="parent"**

**app:layout\_constraintRight\_toRightOf="parent"** />

<**EditText**

**android:id="@+id/editText1"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:layout\_marginTop="100dp"**

**android:ems="10"**

**android:hint="Username"**

**android:inputType="textEmailAddress"**

**app:layout\_constraintBottom\_toTopOf="@+id/editText2"**

**app:layout\_constraintStart\_toStartOf="parent"**

**app:layout\_constraintTop\_toTopOf="parent"** />

<**EditText**

**android:id="@+id/editText2"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:ems="10"**

**android:hint="password"**

**android:inputType="textPassword"**

**app:layout\_constraintBottom\_toTopOf="@+id/button"**

**app:layout\_constraintStart\_toStartOf="parent"**

**app:layout\_constraintTop\_toBottomOf="@+id/editText1"** />

<**Button**

**android:id="@+id/button"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:layout\_marginStart="124dp"**

**android:layout\_marginLeft="124dp"**

**android:layout\_marginTop="4dp"**

**android:onClick="Press"**

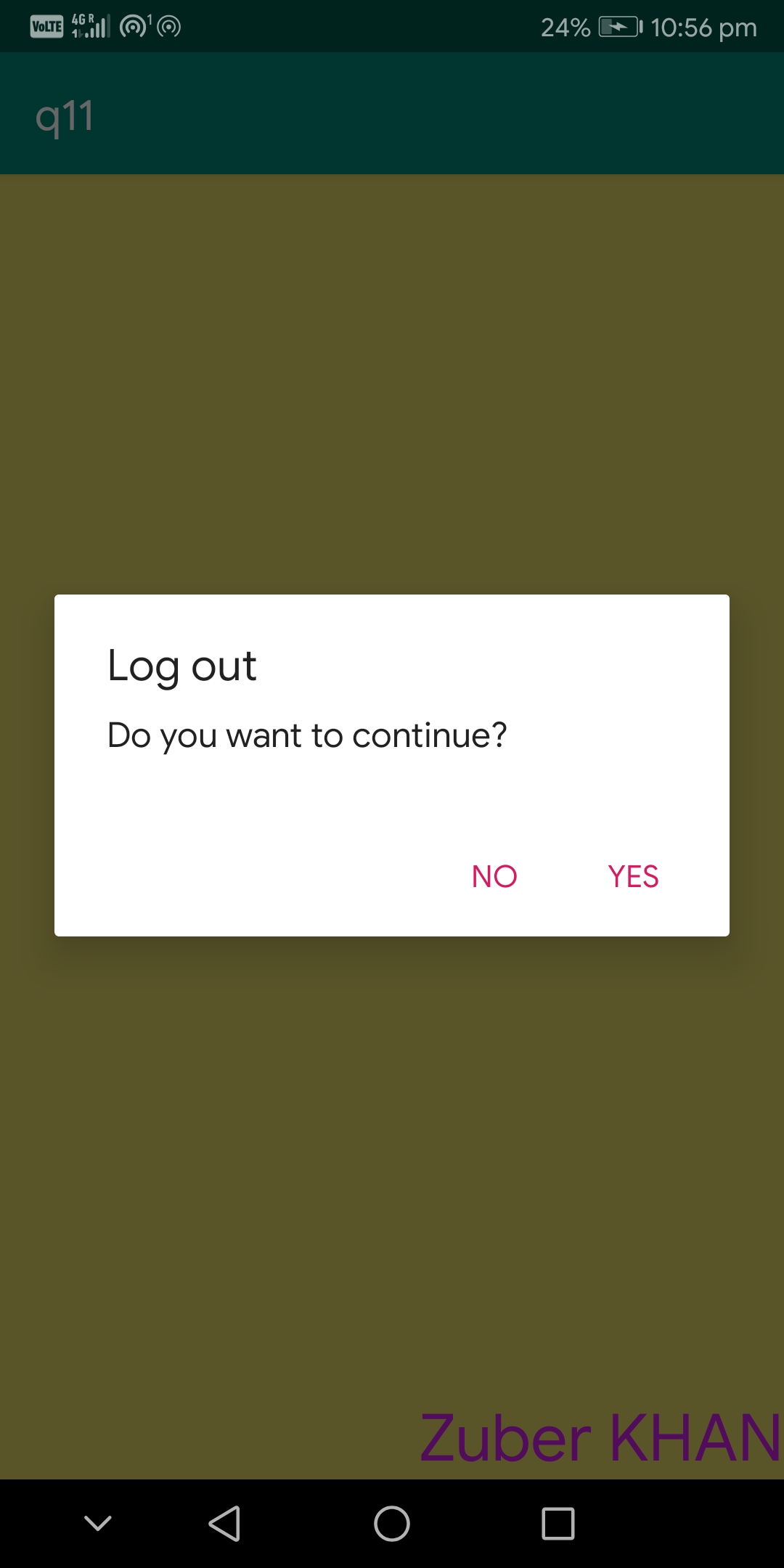
**android:text="Login"**

**app:layout\_constraintStart\_toStartOf="parent"**

**app:layout\_constraintTop\_toBottomOf="@+id/editText2"** />

</**androidx.constraintlayout.widget.ConstraintLayout**>

# \*\*\*\*\*Q10.LOGIN LOGOUT\*\*\*\*\*



MainActivity.java

**package** com.example.q11;

**import** androidx.appcompat.app.AlertDialog;

**import** androidx.appcompat.app.AppCompatActivity;

**import** android.content.DialogInterface;

**import** android.content.DialogInterface.OnClickListener;

**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 {

EditText **et1**,**et2**;

Button **bt**;

@Override

**protected void** onCreate(Bundle savedInstanceState) {

**super**.onCreate(savedInstanceState);

setContentView(R.layout.***activity\_main***);

**et1**=(EditText)findViewById(R.id.***editText1***);

**et2**=(EditText)findViewById(R.id.***editText2***);

**bt**=(Button)findViewById(R.id.***button***);

}

**public void** Press(View v){

String uname=**et1**.getText().toString();

String pass=**et2**.getText().toString();

**if**(uname.equals(**"Zuber"**)&&pass.equals(**"1687"**)){

**et1**.setText(**""**);

**et2**.setText(**""**);

Intent in=**new** Intent(**this**,Main2Activity.**class**);

startActivity(in);

}

**else**{

Toast.*makeText*(**this**,**"Invalid password or username."**,Toast.***LENGTH\_LONG***).show();

}

}

}

Main2Activity.java

**package** com.example.q11;

**import** androidx.appcompat.app.AlertDialog;

**import** androidx.appcompat.app.AppCompatActivity;

**import** android.content.DialogInterface;

**import** android.content.Intent;

**import** android.os.Bundle;

**public class** Main2Activity **extends** AppCompatActivity {

@Override

**protected void** onCreate(Bundle savedInstanceState) {

**super**.onCreate(savedInstanceState);

setContentView(R.layout.***activity\_main2***);

AlertDialog.Builder ad=**new** AlertDialog.Builder(**this**);

ad.setTitle(**"Log out"**);

ad.setMessage(**"Do you want to continue?"**);

ad.setPositiveButton(**"Yes"**, **new** DialogInterface.OnClickListener() {

@Override

**public void** onClick(DialogInterface dialog, **int** which) {

Intent in = **new** Intent(Main2Activity.**this**, MainActivity.**class**);

startActivity(in);

}

});

ad.setNegativeButton(**"No"**, **new** DialogInterface.OnClickListener() {

@Override

**public void** onClick(DialogInterface dialog, **int** which) {

dialog.dismiss();

}

});

ad.show();

}

}

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"**

**android:background="#70D8E6"**

**tools:context=".MainActivity"**>

<**TextView**

**android:id="@+id/textView"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:text="Zuber KHAN"**

**android:textColor="#CA1DE7"**

**android:textSize="30sp"**

**app:fontFamily="cursive"**

**app:layout\_constraintBottom\_toBottomOf="parent"**

**app:layout\_constraintRight\_toRightOf="parent"** />

<**EditText**

**android:id="@+id/editText1"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:layout\_marginTop="100dp"**

**android:ems="10"**

**android:hint="Username"**

**android:inputType="textEmailAddress"**

**app:layout\_constraintBottom\_toTopOf="@+id/editText2"**

**app:layout\_constraintStart\_toStartOf="parent"**

**app:layout\_constraintTop\_toTopOf="parent"** />

<**EditText**

**android:id="@+id/editText2"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:ems="10"**

**android:hint="Password"**

**android:inputType="textPassword"**

**app:layout\_constraintBottom\_toTopOf="@+id/button"**

**app:layout\_constraintStart\_toStartOf="parent"**

**app:layout\_constraintTop\_toBottomOf="@+id/editText1"** />

<**Button**

**android:id="@+id/button"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:layout\_marginStart="124dp"**

**android:layout\_marginLeft="124dp"**

**android:layout\_marginTop="4dp"**

**android:onClick="Press"**

**android:text="Login"**

**app:layout\_constraintStart\_toStartOf="parent"**

**app:layout\_constraintTop\_toBottomOf="@+id/editText2"** />

</**androidx.constraintlayout.widget.ConstraintLayout**>

activity\_main2.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"**

**android:background="#E2D566"**

**tools:context=".Main2Activity"**>

<**TextView**

**android:id="@+id/textView2"**

**android:layout\_width="wrap\_content"**

**android:layout\_height="wrap\_content"**

**android:text="Zuber KHAN"**

**android:textColor="#CA1DE7"**

**android:textSize="30sp"**

**app:fontFamily="cursive"**

**app:layout\_constraintBottom\_toBottomOf="parent"**

**app:layout\_constraintRight\_toRightOf="parent"** />

</**androidx.constraintlayout.widget.ConstraintLayout**>

# \*\*\*\*\*Q12.STUDENT DATABASE\*\*\*\*\*

Main Activity.java

public class MainActivity extends AppCompatActivity {

Button btnAdd,btnView,btnUpdate,btnDel;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

btnAdd = (Button) findViewById(R.id.button);

btnView = (Button) findViewById(R.id.button2);

btnUpdate = (Button) findViewById(R.id.button3);

btnDel = (Button) findViewById(R.id.button4);

btnAdd.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

Intent intent = new Intent(getApplicationContext(), AddInfo.class);

startActivity(intent);

}

});

btnView.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

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

startActivity(intent);

}

});

btnUpdate.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

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

startActivity(intent);

}

});

btnDel.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

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

startActivity(intent);

}

});

}

}

DatabaseHelper

public class DatabaseHelper extends SQLiteOpenHelper {

public static final String DATABASE\_NAME = "student\_db";

public static final String TABLE\_NAME = "student\_tb";

public static final String COL\_1 = "ID";

public static final String COL\_2 = "NAME";

public static final String COL\_3 = "ROLL\_NO";

public DatabaseHelper(Context context) {

super(context, DATABASE\_NAME,null, 1);

}

@Override

public void onCreate(SQLiteDatabase sqLiteDatabase) {

sqLiteDatabase.execSQL("create table " + TABLE\_NAME +" (ID INTEGER PRIMARY KEY

AUTOINCREMENT,NAME TEXT, ROLL\_NO TEXT)");

}

@Override

public void onUpgrade(SQLiteDatabase sqLiteDatabase, int i, int i1) {

sqLiteDatabase.execSQL("DROP TABLE IF EXISTS "+TABLE\_NAME);

onCreate(sqLiteDatabase);

}

public boolean insertData(String name,String rollNo) {

SQLiteDatabase db = this.getWritableDatabase();

ContentValues contentValues = new ContentValues();

contentValues.put(COL\_2,name);

contentValues.put(COL\_3,rollNo);

long result = db.insert(TABLE\_NAME,null ,contentValues);

if(result == -1)

return false;

else

return true;

}

public Cursor getAllData() {

SQLiteDatabase db = this.getWritableDatabase();

Cursor res = db.rawQuery("select \* from "+TABLE\_NAME,null);

return res;

}

public Cursor getAllData(String name) {

SQLiteDatabase db = this.getWritableDatabase();

Cursor res = db.rawQuery("select \* from "+TABLE\_NAME+" where "+COL\_2+"==\'"+

name + "\'",null);

return res;

}

public boolean updateData(String id, String name,String rollNo) {

SQLiteDatabase db = this.getWritableDatabase();

ContentValues contentValues = new ContentValues();

contentValues.put(COL\_1,id);

contentValues.put(COL\_2,name);

contentValues.put(COL\_3,rollNo);

db.update(TABLE\_NAME, contentValues, "ID = ?",new String[] { id });

return true;

}

public Integer deleteData (String id) {

SQLiteDatabase db = this.getWritableDatabase();

return db.delete(TABLE\_NAME, "ID = ?",new String[] {id});

}

}AddInfo

Button btnInsert;

EditText editName,editRollNo;

DatabaseHelper myDb = new DatabaseHelper(this);

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_add\_info);

btnInsert = (Button) findViewById(R.id.button5);

editName = (EditText)findViewById(R.id.editText);

editRollNo = (EditText)findViewById(R.id.editText2);

btnInsert.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

boolean isInserted = myDb.insertData(editName.getText().toString(),

editRollNo.getText().toString());

if(isInserted == true)

Toast.makeText(AddInfo.this,"Data

Inserted",Toast.LENGTH\_LONG).show();

else

Toast.makeText(AddInfo.this,"Data not

Inserted",Toast.LENGTH\_LONG).show();

}

});

}

}UPDATE

public class UpdateInfo extends AppCompatActivity {

Button btnUpdate;

EditText updateid,updateName,updateRollNo;

DatabaseHelper myDb = new DatabaseHelper(this);

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_update\_info);

btnUpdate = (Button)findViewById(R.id.button7);

updateid = (EditText)findViewById(R.id.editText4);

updateName = (EditText)findViewById(R.id.editText5);

updateRollNo = (EditText)findViewById(R.id.editText6);

btnUpdate.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

boolean isUpdated =

myDb.updateData(updateid.getText().toString(),updateName.getText().toString(),

updateRollNo.getText().toString());

if(isUpdated == true)

Toast.makeText(UpdateInfo.this,"Data

Updated",Toast.LENGTH\_LONG).show();

else

Toast.makeText(UpdateInfo.this,"Data Not

Updated",Toast.LENGTH\_LONG).show();

}

});

}

}public class DelInfo extends AppCompatActivity {

Button btnDel;

EditText delText;

DatabaseHelper myDb = new DatabaseHelper(this);

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_del\_info);

btnDel=(Button)findViewById(R.id.button8);

delText=(EditText)findViewById(R.id.editText7);

btnDel.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

Integer deletedRows = myDb.deleteData(delText.getText().toString());

if(deletedRows > 0)

Toast.makeText(DelInfo.this,"Data

Deleted",Toast.LENGTH\_LONG).show();

else

Toast.makeText(DelInfo.this,"Data not Deleted",

Toast.LENGTH\_LONG).show();

}

});

}

}VIEW

public class ViewInfo extends AppCompatActivity {

EditText viewInfo;

Button btnView;

DatabaseHelper myDb = new DatabaseHelper(this);

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_view\_info);

viewInfo = (EditText) findViewById(R.id.editText3);

btnView = (Button) findViewById(R.id.button6);

btnView.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

String n = viewInfo.getText().toString();

if (n.equals("")){

Cursor res = myDb.getAllData();

if(res.getCount() == 0) {

Toast.makeText(ViewInfo.this,"No Data

Found",Toast.LENGTH\_LONG).show();

return;

}

StringBuffer buffer = new StringBuffer();

while (res.moveToNext()) {

buffer.append("Id :"+ res.getString(0)+"\n");

buffer.append("Name :"+ res.getString(1)+"\n");

buffer.append("ROLL\_NO :"+ res.getString(2)+"\n");

}

// Show all data

Toast.makeText(ViewInfo.this,buffer.toString(),Toast.LENGTH\_LONG).show();

}

else{

Cursor res = myDb.getAllData(n);

if(res.getCount() == 0) {

Toast.makeText(ViewInfo.this,"No Data

Found",Toast.LENGTH\_LONG).show();

return;

}

StringBuffer buffer = new StringBuffer();

while (res.moveToNext()) {

buffer.append("Id :"+ res.getString(0)+"\n");

buffer.append("Name :"+ res.getString(1)+"\n");

buffer.append("ROLL\_NO :"+ res.getString(2)+"\n");

}

// Show all data

Toast.makeText(ViewInfo.this,buffer.toString(),Toast.LENGTH\_LONG).show();

}

}

});

}

}