**Practical No: 10** 

Name: Prince Maurya

Roll No: 66

1. Write a program to create a login form for a social networking site. login button.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<selector xmlns:android="http://schemas.android.com/apk/res/android">
  <item android:state pressed="false">
    <shape android:shape="rectangle">
       <stroke
         android:color="#FF4081"
       android:width="1dp"/>
       <solid
         android:color="#FF4081"/>
    </shape>
  </item>
  <item android:state pressed="true">
    <shape android:shape="rectangle">
       <stroke
         android:color="#D81B60"
       android:width="1dp"/>
       <solid
         android:color="#D81B60"/>
    </shape>
  </item>
</selector>
rounded login button.xml:
<?xml version="1.0" encoding="utf-8"?>
<selector xmlns:android="http://schemas.android.com/apk/res/android">
  <item android:state pressed="false">
    <shape android:shape="rectangle">
       <stroke
         android:color="#0000FF"
       android:width="1dp"/>
       <solid
         android:color="#0000FF"/>
       <corners android:radius="24dp" />
    </shape>
  </item>
  <item android:state pressed="true">
    <shape android:shape="rectangle">
       <stroke
         android:color="#000080"
       android:width="1dp"/>
       <solid
         android:color="#000080"/>
       <corners android:radius="24dp" />
    </shape>
```

```
</item>
</selector>
sign up button.xml:
<?xml version="1.0" encoding="utf-8"?>
<selector xmlns:android="http://schemas.android.com/apk/res/android">
  <item android:state pressed="false">
    <shape android:shape="rectangle">
       <stroke
         android:color="#0000FF"
         android:width="1dp"/>
      <solid android:color="#0000FF"/>
    </shape>
  </item>
  <item android:state pressed="true">
    <shape android:shape="rectangle">
       <stroke
         android:color="#000080"
         android:width="1dp"/>
       <solid android:color="#000080"/>
    </shape>
  </item>
</selector>
Activity main.xml(code for layout):-
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
  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="#FFFF00"
  tools:context=".MainActivity">
  <ImageView
    android:layout width="130dp"
    android:layout height="130dp"
    android:layout marginTop="70dp"
    android:src="@drawable/img"
    android:layout centerHorizontal="true"/>
    <LinearLayout
       android:layout_width="match_parent"
      android:layout height="160dp"
       android:orientation="vertical"
       android:layout alignParentBottom="true"
       android:weightSum="2">
       <Button
         android:id="@+id/b1"
```

```
android:layout width="match parent"
         android:layout height="match parent"
         android:text="Login"
         android:onClick="onClick"
         android:textColor="#FFFFFF"
         android:background="@drawable/login button"
         android:layout weight="1"/>
         <Button
           android:id="@+id/b2"
           android:layout width="match parent"
           android:layout height="match parent"
           android:text="Signup"
           android:textColor="#FFFFFF"
           android:background="@drawable/sign_up_button"
           android:layout weight="1"/>
    </LinearLayout>
</RelativeLayout>
MainActivity.java(code for functionality):-
package com.example.practical8;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
public class MainActivity extends AppCompatActivity {
  private Button b1;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity main);
    b1=findViewById(R.id.b1);
  public void onClick(View view) {
    Intent i1 = new Intent(this, MainActivity2.class);
    startActivity(i1);
Activity main2.xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
  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:background="#3498db"
  tools:context=".MainActivity2">
<ImageView
android:layout width="130dp"
android:layout height="130dp"
android:layout marginTop="70dp"
android:src="@drawable/img"
android:layout centerHorizontal="true"/>
<LinearLayout
android:layout width="match parent"
android:layout height="wrap content"
android:orientation="vertical"
android:layout marginTop="150dp"/>
<androidx.cardview.widget.CardView
android:layout margin="64dp"
android:layout width="match parent"
android:layout height="wrap content"
app:cardElevation="8dp"
app:cardCornerRadius="15dp"
app:cardMaxElevation="12dp"
android:background="#ffffff"> <!-- Replace with your color code for white -->
<LinearLayout
  android:layout width="match parent"
  android:layout height="wrap content"
  android:orientation="vertical"
  android:padding="24dp">
  <TextView
    android:layout width="match parent"
    android:layout height="wrap content"
    android:layout gravity="center horizontal"
    android:text="Login"
    android:textAlignment="center"
    android:textColor="#000000"
  android:textSize="25sp"
  android:textStyle="bold" />
  <TextView
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:layout marginTop="30dp"
    android:text="Username"
    android:textSize="20sp" />
  <EditText
    android:id="@+id/e1"
    android:layout width="match parent"
```

```
android:layout height="wrap content"
    android:layout marginTop="10dp"
    android:hint="Enter Username"
    android:inputType="text" />
  <TextView
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:layout marginTop="10dp"
    android:text="Password"
    android:textSize="20sp" />
  <\!\!com.google.android.material.textfield.TextInputLayout
    android:layout width="match parent"
    android:layout height="wrap content"
    app:passwordToggleEnabled="true">
    <EditText
       android:id="@+id/e2"
       android:layout width="match parent"
       android:layout height="50dp"
       android:hint="Enter Password"
       android:inputType="textPassword" />
  </com.google.android.material.textfield.TextInputLayout>
  <Button
    android:id="@+id/activity main loginButton"
    android:layout width="200dp"
    android:layout gravity="center"
    android:layout height="wrap content"
    android:onClick="login"
    android:background="@drawable/rounded login button"
    android:text="Login"
    android:textColor="#ffffff"
  android:layout marginTop="20dp"
  android:textSize="18sp"/>
</LinearLayout>
</androidx.cardview.widget.CardView>
  </RelativeLayout>
MainActivity2.java
package com.example.practical8;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.TextView;
import android.widget.Toast;
public class MainActivity2 extends AppCompatActivity {
  @Override
```

```
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity main2);
  }
  public void login(View view) {
    TextView uid = (TextView)findViewById(R.id.e1);
    TextView upass = (TextView)findViewById(R.id.e2);
    String id = uid.getText().toString();
    String pass = upass.getText().toString();
    if(id.equals("Prince Maurya") && pass.equals("Maurya10"))
       Intent i2 = new Intent(this,MainActivity3.class);
      i2.putExtra("id",uid.getText().toString());
       startActivity(i2);
    }
    else
       Toast.makeText(this,"Invalid Username and Password",Toast.LENGTH SHORT).show();
  }
Activity main3.xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
  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="#3498db"
  tools:context=".MainActivity3">
  <ImageView
    android:layout width="130dp"
    android:layout height="130dp"
    android:layout marginTop="70dp"
    android:src="@drawable/img"
    android:layout centerHorizontal="true"/>
    <TextView
       android:layout width="wrap content"
       android:layout height="wrap_content"
       android:text="Welcome"
       android:layout marginTop="200dp"
       android:layout centerHorizontal="true"
       android:textSize="30sp"
       android:textColor="#000000"
       android:textStyle="bold"/>
    <TextView
       android:id="@+id/t3"
```

```
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginTop="300dp"
android:layout_centerHorizontal="true"
android:textSize="30sp"
android:textColor="#000000"
android:textStyle="bold"/>
</RelativeLayout>
```

## MainActivity3.java

```
package com.example.practical8;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.widget.TextView;
public class MainActivity3 extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main3);
        TextView t3 = (TextView)findViewById(R.id.t3);
        Bundle b = getIntent().getExtras();
        String data_receive= b.getString("id");
        t3.setText("Hi "+data_receive.toUpperCase()); }}Output:
```

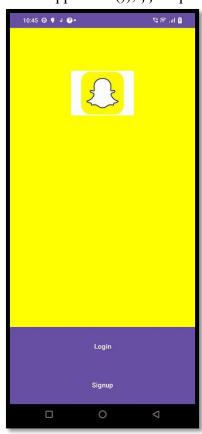


Fig: 10.1 SnapChat Page





Fig 2: Login Page

## 2. Write a program to create a login form for student registration system. Activity main.xml(code for layout):-

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
  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:padding="16dp"
  tools:context=".MainActivity">
  <TextView
    android:layout width="match parent"
    android:layout height="wrap content"
    android:layout marginTop="100dp"
    android:text="@string/h1"
    android:gravity="center"
    android:textStyle="bold"
    android:textSize="30sp"
    android:textColor="#FF1100"/>
  <LinearLayout
    android:layout width="match parent"
    android:layout height="wrap content"
    android:layout marginTop="50dp"
    android:orientation="vertical">
    <com.google.android.material.textfield.TextInputLayout</p>
```

```
android:id="@+id/inputLayout1"
  style="@style/Widget.MaterialComponents.TextInputLayout.OutlinedBox"
  android:layout width="match parent"
  android:layout height="107dp"
  app:boxStrokeColor="#2196F3"
  app:helperText="Required*"
  app:helperTextTextColor="#F80000"
  app:hintTextColor="#2196F3"
  app:placeholderTextColor="#FFFFFF">
  <EditText
    android:id="@+id/ed1"
    android:layout width="match_parent"
    android:layout height="wrap content"
    android:layout margin="4dp"
    android:layout marginTop="40dp"
    android:hint="Enter Name" />
</com.google.android.material.textfield.TextInputLayout>
<com.google.android.material.textfield.TextInputLayout</p>
  android:id="@+id/inputLayout2"
  style="@style/Widget.MaterialComponents.TextInputLayout.OutlinedBox"
  android:layout width="match parent"
  android:layout height="107dp"
  app:boxStrokeColor="#2196F3"
  app:helperText="Required*"
  app:helperTextTextColor="#F80000"
  app:hintTextColor="#2196F3"
  app:placeholderTextColor="#FFFFFF"
  <EditText
    android:id="@+id/ed2"
    android:layout width="match parent"
    android:layout height="wrap content"
    android:layout margin="4dp"
    android:layout marginTop="40dp"
    android:hint="Enter Roll No" />
</com.google.android.material.textfield.TextInputLayout>
<com.google.android.material.textfield.TextInputLayout</p>
  android:id="@+id/inputLayout3"
  style="@style/Widget.MaterialComponents.TextInputLayout.OutlinedBox"
  android:layout width="match parent"
  android:layout height="107dp"
  app:boxStrokeColor="#2196F3"
  app:helperText="Required*"
  app:helperTextTextColor="#F80000"
  app:hintTextColor="#2196F3"
  app:placeholderTextColor="#FFFFFF"
  <EditText
    android:id="@+id/ed3"
    android:layout width="match parent"
    android:layout height="wrap content"
```

```
android:layout margin="4dp"
         android:layout marginTop="40dp"
         android:hint="Enter Enrollment No" />
    </com.google.android.material.textfield.TextInputLayout>
  </LinearLayout>
  <Button
    android:id="@+id/b1"
    android:layout width="250dp"
    android:layout height="wrap content"
    android:layout gravity="center"
    android:layout marginTop="10dp"
    android:height="60dp"
    android:text="@string/register"
    android:background="@drawable/register btn"
    app:iconGravity="textStart"
    app:iconTint="#FFFFFF" />
</LinearLayout>
MainActivity.java(code for functionality):-
package com.example.practical10b;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.text.TextUtils;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {
  EditText ed1,ed2,ed3;
  Button b1;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity main);
    EditText ed1 = findViewById(R.id.ed1);
    EditText ed2 = findViewById(R.id.ed2);
    EditText ed3 = findViewById(R.id.ed3);
    Button b1= findViewById(R.id.b1);
    b1.setOnClickListener(new View.OnClickListener() {
       @Override
       public void onClick(View v) {
         if (TextUtils.isEmpty(ed1.getText().toString())){
            ed1.setError("Name is Required");
         if (TextUtils.isEmpty(ed2.getText().toString())){
            ed2.setError("Roll No is Required");
         if (TextUtils.isEmpty(ed3.getText().toString())){
```

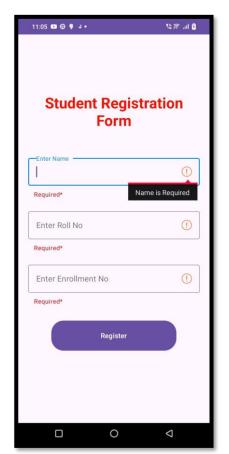
```
ed3.setError("Enrollment No is Required");
         }
         else {
           Toast.makeText(MainActivity.this,"Proceed..",Toast.LENGTH SHORT).show();
            Intent i1 = new Intent(MainActivity.this, MainActivity2.class);
            i1.putExtra("name", ed1.getText().toString());
            i1.putExtra("rollno", ed2.getText().toString());
            i1.putExtra("enroll", ed3.getText().toString());
            startActivity(i1);
       }
    });
  }
strings.xml:
<resources>
  <string name="app name">practical10B</string>
  <string name="h1">Student Registration Form</string>
  <string name="register">Register</string>
</resources>
register_btn.xml:
<?xml version="1.0" encoding="utf-8"?>
<selector xmlns:android="http://schemas.android.com/apk/res/android">
  <item android:state pressed="false">
    <shape android:shape="rectangle">
       <stroke
         android:color="#9C27B0"
       android:width="1dp"/>
       <solid
         android:color="#9C27B0"/>
       <corners android:radius="24dp" />
    </shape>
  </item>
  <item android:state pressed="true">
    <shape android:shape="rectangle">
       <stroke
         android:color="#7B1FA2"
       android:width="1dp"/>
       <solid
         android:color="#7B1FA2"/>
       <corners android:radius="24dp" />
    </shape>
  </item>
</selector>
activity_main2.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=".MainActivity2">
  <TextView
    android:id="@+id/t1"
    android:layout width="match parent"
    android:layout height="wrap content"
    android:text="Name"
    android:gravity="center"
    android:layout marginLeft="50dp"
    android:layout marginRight="50dp"
    android:textStyle="bold"
    android:textSize="20sp"
    />
  <TextView
    android:id="@+id/t2"
    android:layout width="match parent"
    android:layout height="wrap content"
    android:layout marginTop="15dp"
    android:gravity="center"
    android:text="RollNo"
    android:layout marginLeft="50dp"
    android:layout marginRight="50dp"
    android:textStyle="bold"
    android:textSize="20sp"
    />
  <TextView
    android:id="@+id/t3"
    android:layout width="match parent"
    android:layout height="wrap content"
    android:layout marginTop="15dp"
    android:gravity="center"
    android:text="Enrollment No"
    android:layout marginLeft="50dp"
    android:layout marginRight="50dp"
    android:textStyle="bold"
    android:textSize="20sp"
</LinearLayout>
MainActivity2.java:
package com.example.practical10b;
```

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

```
import android.os.Bundle;
import android.widget.TextView;
public class MainActivity2 extends AppCompatActivity {
  TextView t1,t2,t3;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main2);
    TextView t1=(TextView)findViewById(R.id.t1);
    TextView t2=(TextView)findViewById(R.id.t2);
    TextView t3=(TextView)findViewById(R.id.t3);
    Intent iGet = getIntent();
    t1.setText(iGet.getStringExtra("name"));
    t2.setText(iGet.getStringExtra("rollno"));
    t3.setText(iGet.getStringExtra("enroll"));
  }
Output:
```



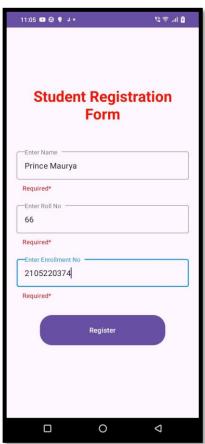


Fig: 10.2 Student Register