

## Experiment No 10

1.

### AndroidManifest.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.experiment10_1">
    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportRtl="true"
        android:theme="@style/Theme.Experiment10_1">
        <activity android:name=".MainActivity3"></activity>
        <activity android:name=".MainActivity2" />
        <activity android:name=".MainActivity">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />
                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
    </application>
</manifest>
```

### 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="@color/colorAccent"
                android:width="1dp"/>
            <solid
                android:color="@color/colorAccent"/>
        </shape>
    </item>
    <item android:state_pressed="true">
        <shape android:shape="rectangle">
            <stroke
                android:color="@color/colorAccentDark"
                android:width="1dp"/>
            <solid
```

```
android:color="@color/colorAccentDark"/>
</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="@color/colorBlue"
        android:width="1dp"/>
      <solid
        android:color="@color/colorBlue"/>
      <corners android:radius="24dp" />
    </shape>
  </item>
  <item android:state_pressed="true">
    <shape android:shape="rectangle">
      <stroke
        android:color="@color/colorBlueDark"
        android:width="1dp"/>
      <solid
        android:color="@color/colorBlueDark"/>
      <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="@color/colorBlue"
        android:width="1dp"/>
      <solid android:color="@color/colorBlue"/>
    </shape>
  </item>
  <item android:state_pressed="true">
    <shape android:shape="rectangle">
      <stroke
```

```
android:color="@color/colorBlueDark"
android:width="1dp"/>
<solid android:color="@color/colorBlueDark"/>
</shape>
</item>
</selector>
```

#### **strings.xml:**

```
<resources>
<string name="app_name">Experiment10_1</string>
<string name="login">LOG IN</string>
<string name="signup">SIGN UP</string>
<string name="login_title">Log in to Snapchat</string>
<string name="login_form_username">Username</string>
<string name="login_form_password">Password</string>
<string name="welcome">Welcome to Snapchat</string>
</resources>
```

#### **activity\_main.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="@color/colorPrimary"
    tools:context=".MainActivity">
    <ImageView
        android:layout_width="130dp"
        android:layout_height="130dp"
        android:layout_marginTop="70dp"
        android:src="@drawable/snapchat"
        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="@string/login"
            android:onClick="onClick"
```

```

        android:textColor="@color/colorWhite"
        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="@string/signup"
        android:textColor="@color/colorWhite"
        android:background="@drawable/sign_up_button"
        android:layout_weight="1"/>
</LinearLayout>
</RelativeLayout>

```

### MainActivity.java:

```

package com.example.experiment10_1;
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="@color/colorPrimary"

```

```
tools:context=".MainActivity2">
<ImageView
    android:layout_width="130dp"
    android:layout_height="130dp"
    android:layout_marginTop="70dp"
    android:src="@drawable/snapchat"
    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="#fff">
<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="@string/login_title"
    android:textAlignment="center"
    android:textColor="@color/colorBlack"
    android:textSize="25sp"
    android:textStyle="bold" />
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="30dp"
    android:text="@string/login_form_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="@string/login_form_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="@string/login"
android:textColor="@color/colorWhite"
android:layout_marginTop="20dp"
android:textSize="18sp"/>
</LinearLayout>
</androidx.cardview.widget.CardView>
</LinearLayout>
</RelativeLayout>

```

### **MainActivity2.java:**

```

package com.example.experiment10_1;
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("Mohit ") && pass.equals("12345"))
    {
        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="@color/colorPrimary"
    tools:context=".MainActivity3">
    <ImageView
        android:layout_width="130dp"
        android:layout_height="130dp"
        android:layout_marginTop="70dp"
        android:src="@drawable/snapchat"
        android:layout_centerHorizontal="true"/>
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/welcome"
        android:layout_marginTop="200dp"
        android:layout_centerHorizontal="true"

```

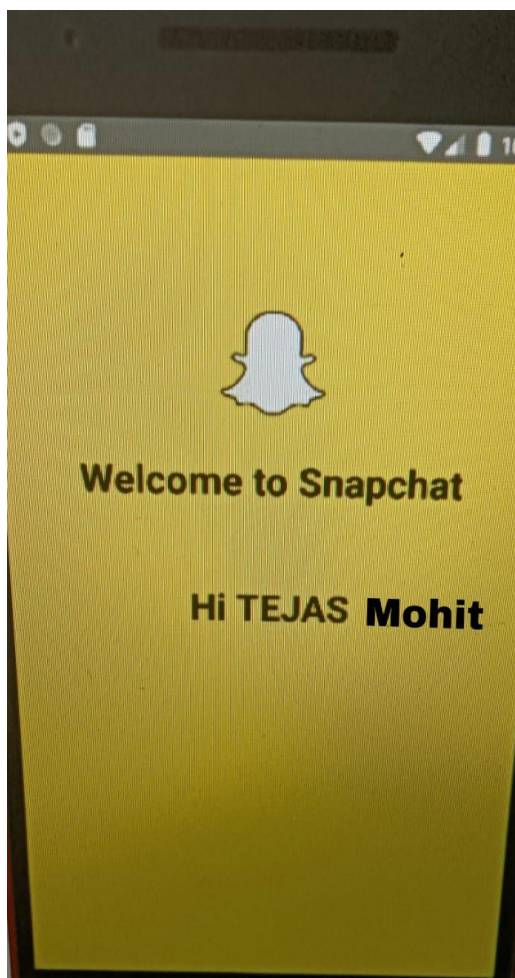
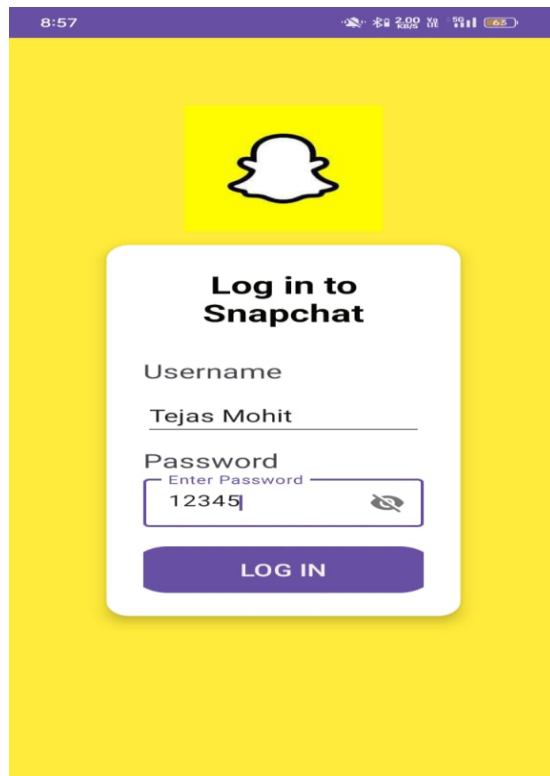
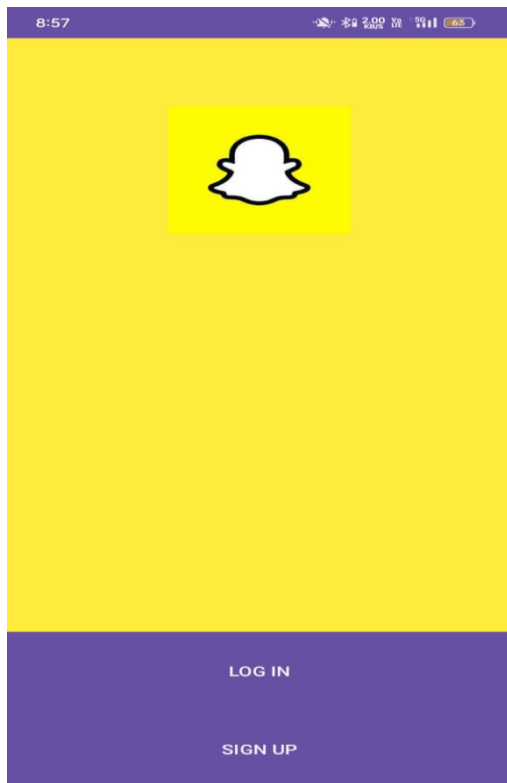
```
android:textSize="30sp"
android:textColor="@color/colorBlack"
android:textStyle="bold"/>
<TextView
android:id="@+id/t3"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginTop="300dp"
android:layout_centerHorizontal="true"
android:textSize="30sp"
android:textColor="@color/colorBlack"
android:textStyle="bold"/>
</RelativeLayout>
```

### **MainActivity3.java:**

```
package com.example.experiment10_1;
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:**





## 2.

### AndroidManifest.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.experiment10_2">
    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportRtl="true"
        android:theme="@style/Theme.Experiment10_2">
        <activity android:name=".MainActivity2"></activity>
        <activity android:name=".MainActivity">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />
                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
    </application>
</manifest>
```

### 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="@color/purple_500"
                android:width="1dp"/>
            <solid
                android:color="@color/purple_500"/>
            <corners android:radius="24dp" />
        </shape>
    </item>
    <item android:state_pressed="true">
        <shape android:shape="rectangle">
            <stroke
                android:color="@color/purple_700"
                android:width="1dp"/>
            <solid
                android:color="@color/purple_700"/>
            <corners android:radius="24dp" />
        </shape>
    </item>
</selector>
```

</selector>

**activity\_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: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
            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>
```

```
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"
>
```

Vaidya 1859

```
<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
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:icon="@drawable/register"
app:iconGravity="textStart"
app:iconTint="#FFFFFF" />
</LinearLayout>
```

#### **MainActivity.java:**

```
package com.example.experiment10_2;
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);
}
}
});
}
}

```

#### **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.experiment10_2;
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:**

7:04 9:21 AM 5G 72

## Student Registration Form

Enter Name

Required\* **Name is Required**

Enter Roll No

Required\*

Enter Enrollment No

Required\*

Register

7:06 12:0 PM 5G 72

## Student Registration Form

Enter Name

Required\*

Enter Roll No

Required\*

Enter Enrollment No

Required\*

Register

7:04 9:59 AM 5G 72

**Mohit**  
**44**  
**2105220349**

 Proceed..