activity_login.xml

```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="10dp"
    android:background="#C3F8A2"
    tools:context=".login">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Login Page"
        android:layout_marginTop="20dp"
        android:textStyle="bold"
        android:id="@+id/success"
        android:textColor="#EE1555"
        android:textSize="40dp"
        android:layout_gravity="center"/>
    <EditText
        android:layout_width="match_parent"
        android:layout_height="50dp"
        android:id="@+id/email"
        android:inputType="textWebEmailAddress"
        android:hint="Email id"
        android:layout_marginTop="90dp"/>
    <EditText
        android:layout_marginTop="5dp"
        android:layout_width="match_parent"
        android:layout_height="50dp"
        android:id="@+id/password"
        android:inputType="textPassword"
        android:hint="Password"/>
    <Button
        android:layout_marginTop="20dp"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textAllCaps="false"
        android:id="@+id/login"
        android:background="#F3E58C"
        android:text="Login"
        android:onClick="onClick"
        android:layout_gravity="center"
        android:textSize="20dp"/>
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Not a member? Sign up now "
        android:layout_marginTop="20dp"
        android:layout_gravity="center"
        android:id="@+id/newmember"
        android:textSize="20dp"/>

</LinearLayout>
```

```java
package com.example.formvalidation;

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;
import android.widget.Toast;

import java.util.regex.Matcher;
import java.util.regex.Pattern;

public class login extends AppCompatActivity
{
    TextView member;
    Button login;
    EditText mail,password;
    @Override
    protected void onCreate(Bundle savedInstanceState)
    {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_login);
        mail=(EditText)findViewById(R.id.email);
        password=(EditText)findViewById(R.id.password);
        member=(TextView)findViewById(R.id.newmember);
        member.setOnClickListener(new View.OnClickListener()
        {
            @Override
            public void onClick(View v)
            {
                Intent a=new Intent(getApplicationContext(),Reg.class);
                startActivity(a);
                finish();
            }
        });
        login=(Button)findViewById(R.id.login);
        login.setOnClickListener(new View.OnClickListener()
        {
            @Override
            public void onClick(View v)
            {
                String validemail = "[a-zA-Z0-9\\+\\.\\_\\%\\-\\+]{1,256}" +

                        "\\@" +

                        "[a-zA-Z0-9][a-zA-Z0-9\\-]{0,64}" +

                        "(" +

                        "\\." +

                        "[a-zA-Z0-9][a-zA-Z0-9\\-]{0,25}" +

                        ")+";
```
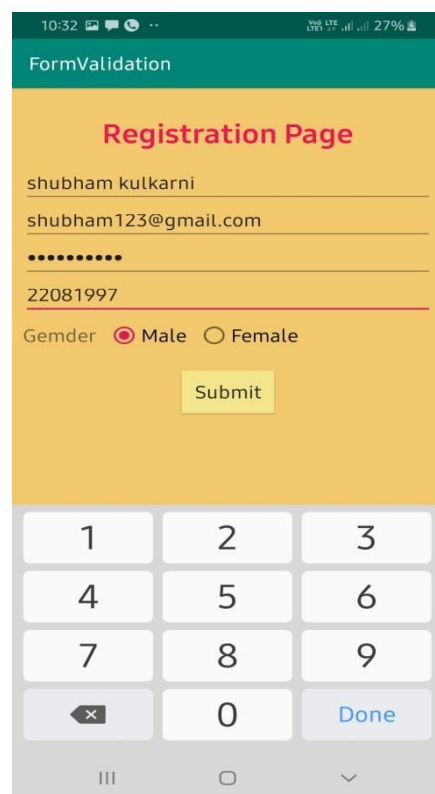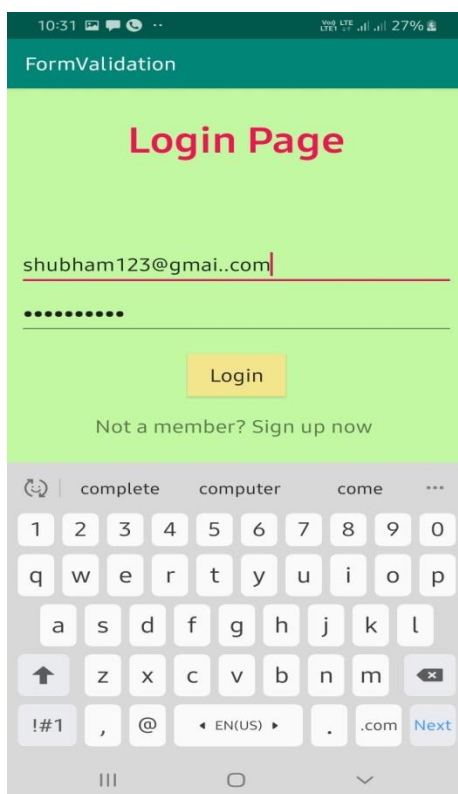
```
                String email=mail.getText().toString();
                Matcher matcher= Pattern.compile(validemail).matcher(email);
                if(matcher.matches())
                {

Toast.makeText(getApplicationContext(),"true",Toast.LENGTH_LONG).show();
                }
                else
                {
                    Toast.makeText(getApplicationContext(), "Enter valid Email",
Toast.LENGTH_LONG).show();
                }
                if(password.getText().toString().equals(""))
                {
                    password.setError("Enter Password");
                }
                TextView text=(TextView)findViewById(R.id.success);
                text.setText("Login Success...");
            }
        });
    }
}
```


activity_reg.xml

```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"
```

```xml
    android:padding="10dp"
    android:background="#F3C96F"
    tools:context=".Reg">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Registration Page"
        android:layout_marginTop="20dp"
        android:textSize="30dp"
        android:textStyle="bold"
        android:id="@+id/done"
        android:textColor="#EE1555"
        android:layout_gravity="center"/>
    <EditText
        android:layout_marginTop="20dp"
        android:layout_width="match_parent"
        android:layout_height="40dp"
        android:hint="Full Name"
        android:inputType="text"
        android:id="@+id/fullname"
        android:textSize="20dp"/>
    <EditText
        android:layout_marginTop="2dp"
        android:layout_width="match_parent"
        android:layout_height="40dp"
        android:hint="Email Id"
        android:inputType="textWebEmailAddress"
        android:id="@+id/email"
        android:textSize="20dp"/>
    <EditText
        android:layout_marginTop="2dp"
        android:layout_width="match_parent"
        android:layout_height="40dp"
        android:hint="Password"
        android:inputType="textPassword"
        android:id="@+id/password"
        android:textSize="20dp"/>
    <EditText
        android:layout_marginTop="2dp"
        android:layout_width="match_parent"
        android:layout_height="40dp"
        android:hint="Date of Birth"
        android:inputType="date"
        android:id="@+id/dob"
        android:textSize="20dp"/>
    <RadioGroup
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="horizontal"
        android:layout_marginTop="2dp">
        <TextView
            android:layout_width="wrap_content"
            android:layout_height="40dp"
            android:text="Gemder"
            android:textSize="20dp"/>

        <RadioButton
            android:layout_width="wrap_content"
```

```xml
            android:layout_height="40dp"
            android:text="Male"
            android:layout_marginLeft="10dp"
            android:textSize="20dp"/>
        <RadioButton
            android:layout_width="wrap_content"
            android:layout_height="40dp"
            android:text="Female"
            android:layout_marginLeft="10dp"
            android:textSize="20dp"/>
    </RadioGroup>

    <Button
        android:layout_marginTop="20dp"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textAllCaps="false"
        android:id="@+id/submit"
        android:background="#F3E58C"
        android:text="Submit"
        android:onClick="onClick"
        android:layout_gravity="center"
        android:textSize="20dp"/>

</LinearLayout>
```

Reg.java
```java
package com.example.formvalidation;

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;
import android.widget.Toast;

import java.util.regex.Matcher;
import java.util.regex.Pattern;

public class Reg extends AppCompatActivity
{
EditText fullname,password,email,dob;
Button submit;
    @Override
    protected void onCreate(Bundle savedInstanceState)
    {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_reg);
        fullname=(EditText)findViewById(R.id.fullname);
        password=(EditText)findViewById(R.id.password);
        email=(EditText)findViewById(R.id.email);
        dob=(EditText)findViewById(R.id.dob);
        submit=(Button)findViewById(R.id.submit);
        submit.setOnClickListener(new View.OnClickListener()
        {
```

```java
            @Override
            public void onClick(View v)
            {
                if(fullname.getText().toString().equals(""))
                {
                    fullname.setError("Enter valid Fullname");
                }
                String validemail = "[a-zA-Z0-9\\+\\.\\_\\%\\-\\+]{1,256}" +

                        "\\@" +

                        "[a-zA-Z0-9][a-zA-Z0-9\\-]{0,64}" +

                        "(" +

                        "\\." +

                        "[a-zA-Z0-9][a-zA-Z0-9\\-]{0,25}" +

                        ")+";
                String emailv=email.getText().toString();
                Matcher matcher= Pattern.compile(validemail).matcher(emailv);
                if(matcher.matches())
                {

Toast.makeText(getApplicationContext(),"true",Toast.LENGTH_LONG).show();
                }
                else
                {
                    Toast.makeText(getApplicationContext(), "Enter valid Email",
Toast.LENGTH_LONG).show();
                }
                if(password.getText().toString().equals(""))
                {
                    password.setError("Enter valid Password");
                }
                else if(dob.getText().toString().equals(""))
                {
                    dob.setError("Enter valid Birth Date");
                }
                TextView text=(TextView)findViewById(R.id.done);
                text.setText("Registration Success...");
            }
        });
    }
}


AndroidmManifest.xml
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.formvalidation">

    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
```

```xml
            android:theme="@style/AppTheme">
        <activity android:name=".Reg" />
        <activity android:name=".login">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
    </application>

</manifest>
```