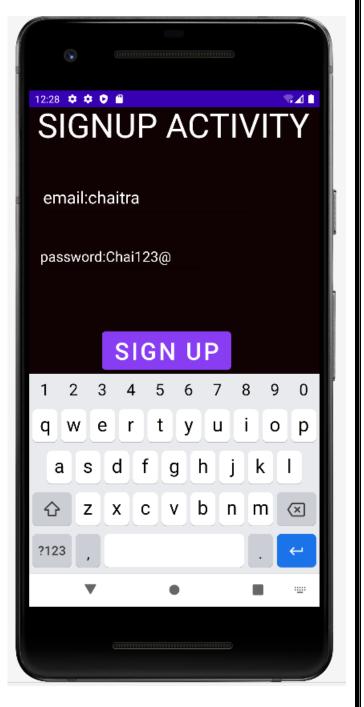
Experiment No:		
Title of the Experiment:	 	
 	 	
Design:		

```
ACLIVILY Main.XMI
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</pre>
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="#100202"
    tools:context=".MainActivity">
    <TextView
        android:id="@+id/textView"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:text="SIGNUP ACTIVITY"
        android:textColor="@color/white"
        android:textSize="48sp"
        app:layout constraintBottom toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal bias="0.459"
        app:layout_constraintStart toStartOf="parent"
        app:layout constraintTop toTopOf="parent"
        app:layout constraintVertical bias="0.067" />
    <EditText
        android:id="@+id/semail"
        android:layout width="307dp"
        android:layout height="56dp"
        android:ems="10"
        android:inputType="textPersonName"
        android:text="email:"
        android:textColor="@color/white"
        android:textSize="24sp"
        app:layout constraintBottom toBottomOf="parent"
        app:layout_constraintEnd toEndOf="parent"
        app:layout_constraintHorizontal bias="0.153"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical bias="0.263" />
    <Button
        android:id="@+id/button3"
        android:layout_width="wrap_content"
        android:layout height="wrap content"
        android:text="SIGN UP"
        android:textSize="34sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.451"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical bias="0.662" />
    <EditText
        android:id="@+id/spassword"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:ems="10"
        android:inputType="textPersonName"
        android:text="password:"
        android:textColor="@color/white"
        android:textSize="20sp"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintHorizontal bias="0.068"
        app:layout constraintStart toStartOf="parent"
        app:layout_constraintTop toTopOf="parent"
              vout constraintVertical bias="0.417"
```

```
</androidx.constraintlayout.widget.ConstraintLayout>
Mainactivity.java
package com.example.signupactivity;
         import androidx.appcompat.app.AppCompatActivity;
         import android.content.Intent;
 import android.view.View;
import android.widget.EditText;
 import android.widget.Button;
 import android.widget.Toast;
 import java.util.regex.Pattern;
 import android.os.Bundle;
         public class MainActivity extends AppCompatActivity {
         EditText signemail, signpasswd;
 Button signupbutton;
 @Override
protected void onCreate(Bundle savedInstanceState) {
         super.onCreate(savedInstanceState);
         setContentView(R.layout.activity main);
         signemail=findViewById(R.id.semail);
         signpasswd=findViewById(R.id.spassword);
         signupbutton=findViewById(R.id.button3);
         signupbutton.setOnClickListener(new View.OnClickListener() {
 @Override
 public void onClick(View view) {
                 String email=signemail.getText().toString();
                 String passwd=signpasswd.getText().toString();
                 if(!isValidPassword(passwd))
                     Toast.makeText(MainActivity.this, "password doesnot
match the rules", Toast.LENGTH LONG) .show();
                             return;
                 Intent intent=new Intent (MainActivity.this,
loginactivity.class);
                 intent.putExtra("email", email);
                 intent.putExtra("password",passwd);
                 startActivity(intent);
 });
 Pattern lowercase = Pattern.compile("^.*[a-z].*$");
 Pattern uppercase = Pattern.compile("^.*[A-Z].*$");
Pattern number = Pattern.compile("^.*[0-9].*$");
 Pattern specialcharacter = Pattern.compile("^.*[^a-zA-Z0-9].*$");
         private Boolean isValidPassword(String pword)
         if (pword.length() < 8)</pre>
             return false;
         if(!lowercase.matcher(pword).matches())
             return false;
        if(!uppercase.matcher(pword).matches())
             return false;
         if(!number.matcher(pword).matches())
```

```
freturn false;
}
if(!specialcharacter.matcher(pword).matches())
{
    return false;
}
return true;
}
```





Activity loginactivity.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</pre>
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=".loginactivity">
    <TextView
        android:id="@+id/textview"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:text="LOGIN ACTIVITY"
        android:textColor="@color/black"
        android:textSize="48sp"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintHorizontal bias="0.459"
        app:layout constraintStart toStartOf="parent"
        app:layout constraintTop toTopOf="parent"
        app:layout constraintVertical bias="0.067" />
    <EditText
        android:id="@+id/lemail"
        android:layout width="307dp"
        android:layout height="56dp"
        android:ems="10"
        android:inputType="textPersonName"
        android:text="email:"
        android:textColor="@color/black"
        android:textSize="24sp"
        app:layout constraintBottom toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout constraintHorizontal bias="0.153"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop toTopOf="parent"
        app:layout constraintVertical bias="0.263" />
    <EditText
        android:id="@+id/lpassword"
        android:layout_width="wrap content"
        android:layout_height="wrap content"
        android:ems="10"
        android:inputType="textPersonName"
        android:text="password:"
        android:textColor="@color/black"
        android:textSize="20sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout constraintHorizontal bias="0.068"
        app:layout constraintStart toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout constraintVertical bias="0.417" />
    <Button
        android:id="@+id/button4"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:text="LOGIN"
        android:textSize="34sp"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintHorizontal bias="0.451"
        app:lavout constraintStart toStartOf="parent"
```

```
app:layout constraintVertical bias="0.662" />
</androidx.constraintlayout.widget.ConstraintLayout>
Login activity.java
package com.example.signupactivity;
import androidx.appcompat.app.AppCompatActivity;
import android.view.View;
import android.widget.EditText;
import android.widget.Button;
import android.widget.Toast;
import android.content.Intent;
import android.os.Bundle;
import android.os.Bundle;
public class loginactivity extends AppCompatActivity {
  EditText lemail, lpassword;
  Button button4;
  int count=2;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity loginactivity);
        lemail=findViewById(R.id.lemail);
        lpassword=findViewById(R.id.lpassword);
        button4=findViewById(R.id.button4);
        String reglemail=getIntent().getStringExtra("email");
        String reglpasswd=getIntent().getStringExtra("password");
        button4.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                String email=lemail.getText().toString();
                String passwd=lpassword.getText().toString();
                if(reglemail.equals(email) && reglpasswd.equals(passwd)){
                    Intent intent = new Intent(loginactivity.this,
loginsuccess.class);
                    startActivity(intent);
                else
                    Toast.makeText(loginactivity.this, "LOGIN FAILED",
Toast.LENGTH LONG).show();
                }
                count--;
                if(count==0)
                    Toast.makeText(loginactivity.this, "FAILED LOGIN
ATTEMPTS", Toast. LENGTH LONG). show();
                    button4.setEnabled(false);
            }
        });
    }
```

