

Experiment No:_____

Title of the Experiment:_____

Design:

```

<?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="#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"
        app:layout_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)
```

```
    {
```

```
        return false;
```

```
    }
```

```
    if(!lowercase.matcher(pword).matches())
```

```
    {
```

```
        return false;
```

```
    }
```

```
    if(!uppercase.matcher(pword).matches())
```

```
    {
```

```
        return false;
```

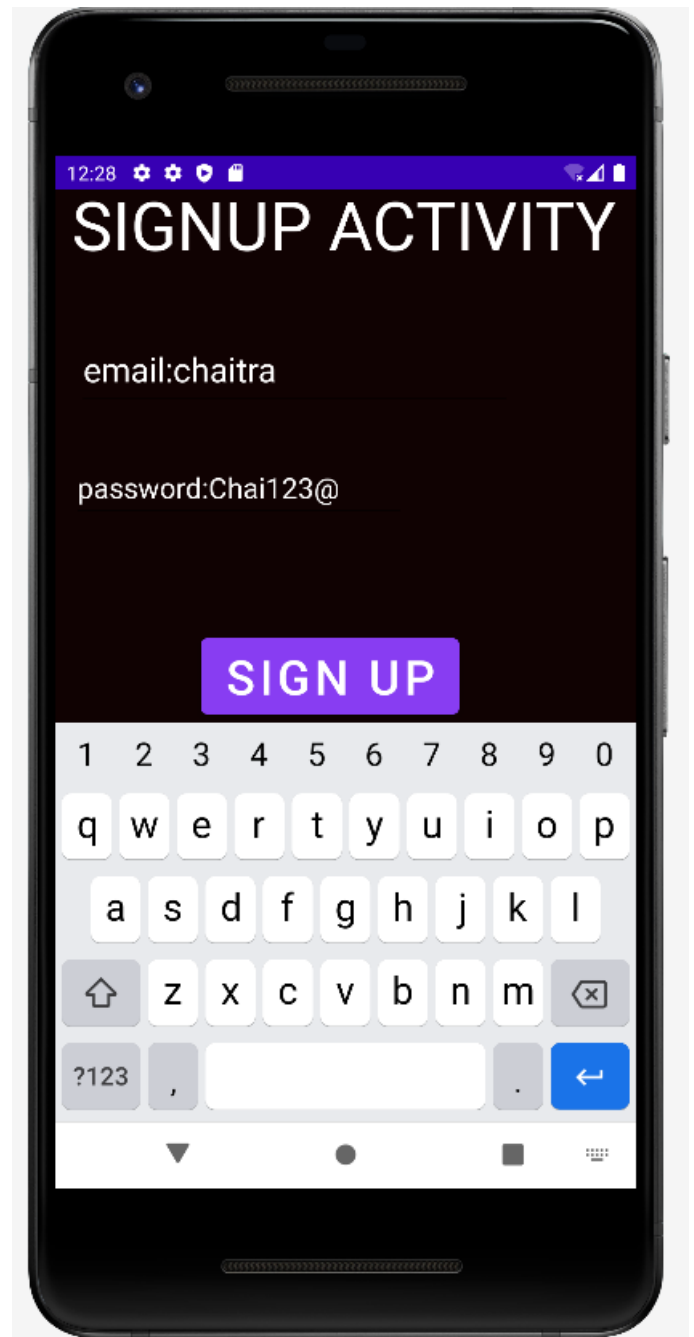
```
    }
```

```
    if(!number.matcher(pword).matches())
```

```

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

```



Activity_loginactivity.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=".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:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.067" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

```

        app:layout_constraintTop_toTopOf= 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);
                }
            }
        });
    }
}

```

