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Question1: Facebook Login

Problem statement:

Create an application as shown. Apply layout as shown in the fig.

Activity_main.xml:

```xml
<?xml version="1.0" encoding="utf-8"?>
<ScrollView 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:fillViewport="true"
    android:background="@color/colorPrimary"
    tools:context=".MainActivity">

    <androidx.constraintlayout.widget.ConstraintLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content">

        <ImageView
            android:id="@+id/imageView"
            android:layout_width="64dp"
            android:layout_height="64dp"
            android:layout_marginTop="128dp"
            android:src="@drawable/ic_facebook"
            app:layout_constraintEnd_toStartOf="@+id/guideline2"
            app:layout_constraintStart_toStartOf="@+id/guideline"
```

```xml
        app:layout_constraintTop_toTopOf="parent" />

    <EditText
        android:id="@+id/editText"
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        android:layout_marginTop="32dp"
        android:backgroundTint="@color/colorAccentDark"
        android:hint="Email or Phone"
        android:inputType="textEmailAddress|textWebEmailAddress"
        android:textColor="@color/colorAccentDark"
        android:textColorHint="@color/colorAccentDark"
        app:layout_constraintEnd_toStartOf="@+id/guideline2"
        app:layout_constraintStart_toStartOf="@+id/guideline"
        app:layout_constraintTop_toBottomOf="@+id/imageView" />

    <EditText
        android:id="@+id/editText2"
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        android:layout_marginTop="16dp"
        android:backgroundTint="@color/colorAccentDark"
        android:hint="Password"
        android:inputType="textPassword"
        android:textColor="@color/colorAccentDark"
        android:textColorHint="@color/colorAccentDark"
        app:layout_constraintEnd_toStartOf="@+id/guideline2"
        app:layout_constraintStart_toStartOf="@+id/guideline"
        app:layout_constraintTop_toBottomOf="@+id/editText" />

    <Button
        android:id="@+id/button"
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        android:layout_marginTop="16dp"
        android:backgroundTint="@color/colorPrimaryDark"
        android:text="LOG IN"
```

```xml
            android:textColor="@color/colorAccentDark"
            app:layout_constraintEnd_toStartOf="@+id/guideline2"
            app:layout_constraintStart_toStartOf="@+id/guideline"
            app:layout_constraintTop_toBottomOf="@+id/editText2" />

        <Button
            android:id="@+id/button2"
            style="@style/Widget.AppCompat.Button.Borderless"
            android:layout_width="0dp"
            android:layout_height="wrap_content"
            android:layout_marginTop="32dp"
            android:text="Sign Up for Facebook"
            android:textColor="@color/colorAccent"
            app:layout_constraintBottom_toTopOf="@+id/button3"
            app:layout_constraintEnd_toStartOf="@+id/guideline2"
            app:layout_constraintHorizontal_bias="0.5"
            app:layout_constraintStart_toStartOf="@+id/guideline"
            app:layout_constraintTop_toBottomOf="@+id/button"
            app:layout_constraintVertical_bias="1.0"
            app:layout_constraintVertical_chainStyle="packed" />

        <Button
            android:id="@+id/button3"
            style="@style/Widget.AppCompat.Button.Borderless"
            android:layout_width="0dp"
            android:layout_height="wrap_content"
            android:layout_marginBottom="16dp"
            android:text="Forgot Password?"
            android:textColor="@color/colorAccent"
            app:layout_constraintBottom_toBottomOf="parent"
            app:layout_constraintEnd_toStartOf="@+id/guideline2"
            app:layout_constraintHorizontal_bias="0.5"
            app:layout_constraintStart_toStartOf="@+id/guideline"
            app:layout_constraintTop_toBottomOf="@+id/button2" />

        <ImageButton
            android:layout_width="48dp"
```

```xml
            android:layout_height="0dp"
            android:background="@android:color/transparent"
            android:src="@drawable/ic_help"
            android:scaleType="fitCenter"
            android:padding="4dp"
            app:layout_constraintBottom_toBottomOf="@+id/button3"
            app:layout_constraintEnd_toEndOf="@+id/button3"
            app:layout_constraintTop_toTopOf="@+id/button3" />

        <androidx.constraintlayout.widget.Guideline
            android:id="@+id/guideline"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:orientation="vertical"
            app:layout_constraintGuide_begin="32dp" />

        <androidx.constraintlayout.widget.Guideline
            android:id="@+id/guideline2"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:orientation="vertical"
            app:layout_constraintGuide_end="32dp" />

    </androidx.constraintlayout.widget.ConstraintLayout>

</ScrollView>
```

colors.xml:

```xml
<?xml version="1.0" encoding="utf-8"?>

<resources>
```

```
    <color name="purple_200">#FFBB86FC</color>

    <color name="purple_500">#FF6200EE</color>

    <color name="purple_700">#FF3700B3</color>

    <color name="teal_200">#FF03DAC5</color>

    <color name="teal_700">#FF018786</color>

    <color name="black">#FF000000</color>

    <color name="white">#FFFFFFFF</color>

    <color name="colorPrimary">#3B5998</color>

    <color name="colorPrimaryDark">#8B9DC3</color>

    <color name="colorAccentDark">#DFE3EE</color>

    <color name="colorAccent">#F7F7F7</color>

    <color name="colorAccentLight">#FFFFFF</color>

</resources>
```
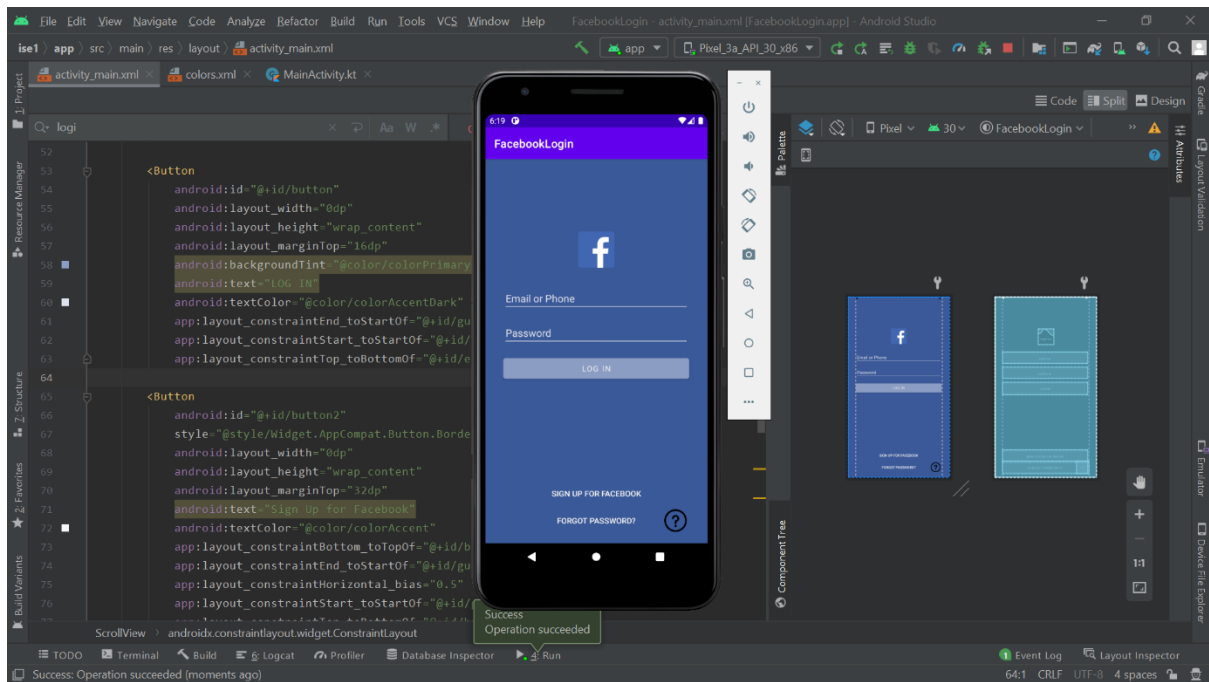
Output :

Question2: Registration Form

Problem statement:

Design a Registration form, which represents the following fields. Name of Student, Contact number, Address, city, state, Image View(Student photo) Apply changes viz. style, size, color, margin, padding on above widgets.

Activity_main.xml:

```xml
<?xml version="1.0" encoding="utf-8"?>
<ScrollView 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:fillViewport="true"
    android:background="@color/colorPrimary"
    tools:context=".MainActivity">

    <androidx.constraintlayout.widget.ConstraintLayout
```

```xml
    android:layout_width="match_parent"
    android:layout_height="wrap_content">


    <ImageView
        android:id="@+id/imageView"
        android:layout_width="75dp"
        android:layout_height="77dp"
        android:layout_marginTop="40dp"
        android:src="@drawable/ic_menu_search"
        app:layout_constraintEnd_toStartOf="@+id/guideline2"
        app:layout_constraintHorizontal_bias="0.833"
        app:layout_constraintStart_toStartOf="@+id/guideline"
        app:layout_constraintTop_toTopOf="parent" />

    <EditText
        android:id="@+id/editText"
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        android:layout_marginTop="40dp"
        android:backgroundTint="@color/colorAccentDark"
        android:hint="Name of Student"
        android:inputType="textEmailAddress|textWebEmailAddress"
        android:textColor="@color/colorAccentDark"
        android:textColorHint="@color/colorAccentDark"
        app:layout_constraintEnd_toStartOf="@+id/guideline2"
        app:layout_constraintHorizontal_bias="0.0"
        app:layout_constraintStart_toStartOf="@+id/guideline"
        app:layout_constraintTop_toBottomOf="@+id/imageView" />

    <EditText
        android:id="@+id/editText1"
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        android:layout_marginTop="32dp"
        android:backgroundTint="@color/colorAccentDark"
        android:hint="Contact number"
```

```xml
    android:inputType="textPassword"
    android:textColor="@color/colorAccentDark"
    android:textColorHint="@color/colorAccentDark"
    app:layout_constraintEnd_toStartOf="@+id/guideline2"
    app:layout_constraintHorizontal_bias="0.0"
    app:layout_constraintStart_toStartOf="@+id/guideline"
    app:layout_constraintTop_toBottomOf="@+id/editText" />

<EditText
    android:id="@+id/editText2"
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:layout_marginTop="116dp"
    android:backgroundTint="@color/colorAccentDark"
    android:hint="Address"
    android:inputType="textPassword"
    android:textColor="@color/colorAccentDark"
    android:textColorHint="@color/colorAccentDark"
    app:layout_constraintEnd_toStartOf="@+id/guideline2"
    app:layout_constraintHorizontal_bias="0.0"
    app:layout_constraintStart_toStartOf="@+id/guideline"
    app:layout_constraintTop_toBottomOf="@+id/editText" />

<EditText
    android:id="@+id/editText3"
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:layout_marginTop="196dp"
    android:backgroundTint="@color/colorAccentDark"
    android:hint="City"
    android:inputType="textPassword"
    android:textColor="@color/colorAccentDark"
    android:textColorHint="@color/colorAccentDark"
    app:layout_constraintEnd_toStartOf="@+id/guideline2"
    app:layout_constraintHorizontal_bias="0.0"
    app:layout_constraintStart_toStartOf="@+id/guideline"
    app:layout_constraintTop_toBottomOf="@+id/editText" />
```

```xml
<EditText
    android:id="@+id/editText4"
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:layout_marginTop="272dp"
    android:backgroundTint="@color/colorAccentDark"
    android:hint="State"
    android:inputType="textPassword"
    android:textColor="@color/colorAccentDark"
    android:textColorHint="@color/colorAccentDark"
    app:layout_constraintEnd_toStartOf="@+id/guideline2"
    app:layout_constraintHorizontal_bias="0.0"
    app:layout_constraintStart_toStartOf="@+id/guideline"
    app:layout_constraintTop_toBottomOf="@+id/editText" />

<Button
    android:id="@+id/button"
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:layout_marginTop="248dp"
    android:backgroundTint="@color/colorPrimaryDark"
    android:text="Register"
    android:textColor="@color/colorAccentDark"
    app:layout_constraintEnd_toStartOf="@+id/guideline2"
    app:layout_constraintHorizontal_bias="0.0"
    app:layout_constraintStart_toStartOf="@+id/guideline"
    app:layout_constraintTop_toBottomOf="@+id/editText2" />

<androidx.constraintlayout.widget.Guideline
    android:id="@+id/guideline"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:orientation="vertical"
    app:layout_constraintGuide_begin="32dp" />

<androidx.constraintlayout.widget.Guideline
```

```
                android:id="@+id/guideline2"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:orientation="vertical"
                app:layout_constraintGuide_end="32dp" />

    </androidx.constraintlayout.widget.ConstraintLayout>

</ScrollView>
```

colors.xml:

```
<?xml version="1.0" encoding="utf-8"?>

<resources>

    <color name="purple_200">#FFBB86FC</color>

    <color name="purple_500">#FF6200EE</color>

    <color name="purple_700">#FF3700B3</color>

    <color name="teal_200">#FF03DAC5</color>

    <color name="teal_700">#FF018786</color>

    <color name="black">#FF000000</color>

    <color name="white">#FFFFFFFF</color>
```

```xml
    <color name="colorPrimary">#3B5998</color>

    <color name="colorPrimaryDark">#8B9DC3</color>

    <color name="colorAccentDark">#DFE3EE</color>

    <color name="colorAccent">#F7F7F7</color>

    <color name="colorAccentLight">#FFFFFF</color>

</resources>
```

Output :