2CEIT5PE5: MOBILE APPLICATION DEVELOPMENT

Practical: 3

AIM: Create following UI by using **ConstraintLayout**.

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activity_main.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=".MainActivity">
  <androidx.core.widget.NestedScrollView
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@color/white">
    <androidx.constraintlayout.widget.ConstraintLayout
      android:layout width="match parent"
      android:layout height="wrap content">
      <ImageView
         android:id="@+id/image logo"
         android:layout_width="match_parent"
         android:layout_height="130dp"
         android:src="@drawable/guni_pink_logo"
         app:layout constraintEnd toEndOf="parent"
         app:layout constraintStart toStartOf="parent"
         app:layout_constraintTop_toTopOf="parent" />
      <com.google.android.material.card.MaterialCardView
         android:id="@+id/cardview"
         android:layout width="match parent"
         android:layout_height="wrap_content"
         android:layout_marginStart="20dp"
         android:layout marginEnd="20dp"
         app:cardCornerRadius="15dp"
         app:cardElevation="20dp"
         app:layout_constraintTop_toBottomOf="@+id/image_logo">
         <androidx.constraintlayout.widget.ConstraintLayout
           android:layout_width="match_parent"
           android:layout height="wrap content"
           android:background="@color/white"
           android:paddingVertical="20dp">
           <TextView
             android:id="@+id/textviewemail"
             android:layout width="wrap content"
             android:layout_height="wrap_content"
             android:text="Email Id"
             android:textSize="18sp"
             app:layout_constraintBaseline_toBaselineOf="@+id/edittexteamil"
```

Practical: 3

```
app:layout_constraintEnd_toStartOf="@+id/edittexteamil"
  app:layout_constraintStart_toStartOf="parent" />
<EditText
  android:id="@+id/edittextpass"
  android:layout width="wrap content"
  android:layout_height="wrap_content"
  android:ems="10"
  android:inputType="textPassword"
  android:textSize="18sp"
  app:layout_constraintEnd_toEndOf="parent"
  app:layout_constraintHorizontal_bias="0.428"
  app:layout constraintStart toEndOf="@+id/textviewpass"
  app:layout_constraintTop_toBottomOf="@+id/edittexteamil"/>
<TextView
  android:id="@+id/textviewpass"
  android:layout_width="wrap_content"
  android:layout height="wrap content"
  android:text="Password"
  android:textSize="18sp"
  app:layout_constraintBaseline_toBaselineOf="@+id/edittextpass"
  app:layout_constraintEnd_toStartOf="@+id/edittexteamil"
  app:layout_constraintStart_toStartOf="parent"
  app:layout_constraintTop_toBottomOf="@+id/textviewemail" />
<TextView
  android:id="@+id/textview_forgotpwd"
  android:layout width="wrap content"
  android:layout height="wrap content"
  android:layout_margin="20dp"
  android:layout_marginTop="15dp"
  android:padding="20dp"
  android:text="Forgot passord?"
  android:textSize="18sp"
  app:layout constraintEnd toEndOf="parent"
  app:layout constraintHorizontal bias="0.11"
  app:layout_constraintStart_toStartOf="parent"
  app:layout_constraintTop_toBottomOf="@id/edittextpass"/>
<Button
  android:id="@+id/btn_login"
  android:layout width="wrap content"
  android:layout height="wrap content"
  android:paddingHorizontal="20dp"
  android:text="Login"
  android:textColor="#ffffff"
  app:layout_constraintEnd_toEndOf="parent"
  app:layout constraintStart toStartOf="parent"
  app:layout_constraintTop_toBottomOf="@id/textview_forgotpwd" />
<EditText
```

```
android:id="@+id/edittexteamil"
             android:layout_width="wrap_content"
             android:layout_height="wrap_content"
             android:layout marginTop="20dp"
             android:ems="10"
             android:inputType="textPassword"
             android:textSize="18sp"
             app:layout_constraintEnd_toEndOf="parent"
             app:layout_constraintHorizontal_bias="0.0"
             app:layout_constraintStart_toEndOf="@+id/textviewemail"
             app:layout_constraintTop_toTopOf="parent" />
         </androidx.constraintlayout.widget.ConstraintLayout>
      </com.google.android.material.card.MaterialCardView>
      <TextView
         android:id="@+id/singup_mes"
         android:layout_width="wrap_content"
         android:layout_height="wrap_content"
         android:paddingVertical="20dp"
         android:text="Don't have an account"
         android:textSize="18sp"
         app:layout_constraintEnd_toEndOf="parent"
         app:layout_constraintHorizontal_bias="0.11"
         app:layout_constraintStart_toStartOf="parent"
         app:layout_constraintTop_toBottomOf="@+id/cardview"/>
      <Button
         android:layout_width="wrap_content"
         android:layout_height="wrap_content"
         android:background="@android:color/transparent"
         android:text="SING UP"
         android:textColor="#EE30A8"
         app:layout_constraintBaseline_toBaselineOf="@id/singup_mes"
         app:layout constraintEnd toEndOf="parent"
         app:layout_constraintStart_toEndOf="@id/singup_mes"/>
    </androidx.constraintlayout.widget.ConstraintLayout>
  </androidx.core.widget.NestedScrollView>
</androidx.constraintlayout.widget.ConstraintLayout>
MainActivity.kt
package com.pavanpatel.myapplication 3
import androidx.appcompat.app.AppCompatActivity
import android.os.Bundle
class MainActivity : AppCompatActivity() {
  override fun onCreate(savedInstanceState: Bundle?) {
    super.onCreate(savedInstanceState)
    setContentView(R.layout.activity main)
```

}

• OUTPUT:



