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Q1. Make this GUI, but you have to upload the image of your own choice. It should be in round shape using Linear Layout. Clicking on sign in button, a snackbar should show the message “done successfully”

Ans.

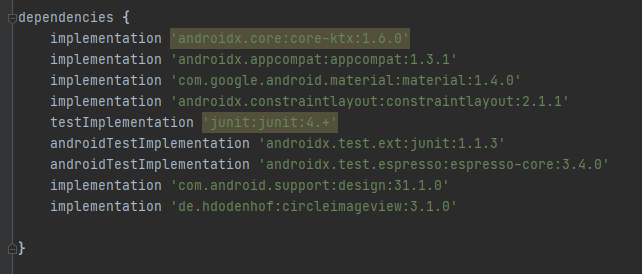
Xml: activity\_main.xml

<?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"  
 tools:context=".MainActivity"  
 android:id="@+id/main"  
 android:orientation="vertical"  
 android:background="@color/primary">  
 <ScrollView  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent">  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:orientation="vertical"  
 android:layout\_height="match\_parent">  
 <TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:gravity="center"  
 android:paddingTop="15dp"  
 android:text="Microsoft Team"  
 android:textSize="30sp"  
 android:textColor="@color/header"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintLeft\_toLeftOf="parent"  
 app:layout\_constraintRight\_toRightOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <de.hdodenhof.circleimageview.CircleImageView  
 android:layout\_width="250dp"  
 android:layout\_height="250dp"  
 android:layout\_gravity="center"  
 android:paddingTop="8dp"  
 android:src="@drawable/team2" />  
  
 <TextView  
 android:layout\_width="fill\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginLeft="30dp"  
 android:layout\_marginTop="-20dp"  
 android:layout\_marginRight="20dp"  
 android:gravity="center"  
 android:paddingTop="25dp"  
 android:text="Get started with your work, school or personal Microsoft account"  
 android:textColor="@color/textView"  
 android:textSize="20sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintLeft\_toLeftOf="parent"  
 app:layout\_constraintRight\_toRightOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <EditText  
 android:id="@+id/EditText"  
 android:layout\_width="fill\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_centerInParent="true"  
 android:hint="Enter email, phone, or skype"  
 android:textSize="20sp"  
 android:textColor="@color/editText"  
 android:layout\_marginLeft="50dp"  
 android:layout\_marginRight="30dp"  
 android:gravity="left"  
 android:layout\_marginTop="10dp"  
 android:padding="15dp"  
 android:background="@color/grayInput"  
 />  
 <androidx.appcompat.widget.AppCompatButton  
 android:id="@+id/Sing\_in"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:textAllCaps="false"  
 android:background="@drawable/rounded\_button"  
 android:text="Sign In"  
 android:layout\_marginLeft="55dp"  
 android:layout\_marginRight="30dp"  
 android:layout\_marginTop="10dp"  
 android:padding="15dp"  
 android:textSize="18sp"  
 android:gravity="center"  
 android:textColor="@color/white"  
 />  
 <TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:paddingTop="25dp"  
 android:gravity="center"  
 android:layout\_marginLeft="10dp"  
 android:layout\_marginTop="-20dp"  
 android:text="Get help with signing in"  
 android:textSize="18sp"  
 android:textColor="@color/header"  
 android:textStyle="bold"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintLeft\_toLeftOf="parent"  
 app:layout\_constraintRight\_toRightOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
 <androidx.appcompat.widget.AppCompatButton  
 android:id="@+id/join\_btn"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:textAllCaps="false"  
 android:background="@drawable/login\_option"  
 android:text="Join a meeting"  
 android:layout\_marginLeft="25dp"  
 android:layout\_marginRight="8dp"  
 android:layout\_marginTop="10dp"  
 android:paddingStart="40dp"  
 android:padding="15dp"  
 android:textSize="18sp"  
 android:gravity="center"  
 android:textColor="@color/header"  
 android:textStyle="bold"  
  
 />  
  
  
 <androidx.appcompat.widget.AppCompatButton  
 android:id="@+id/microsoft\_login\_btn"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_centerInParent="true"  
 android:layout\_marginLeft="25dp"  
 android:layout\_marginTop="10dp"  
 android:layout\_marginRight="8dp"  
 android:width="500dp"  
 android:background="@drawable/login\_option"  
 android:drawableStart="@drawable/microsoft"  
 android:gravity="center"  
 android:padding="10dp"  
 android:paddingStart="90dp"  
 android:paddingEnd="70dp"  
 android:text="Sign up for free"  
 android:textAllCaps="false"  
 android:textColor="@color/header"  
 android:textSize="18sp"  
 android:textStyle="bold" />  
  
</LinearLayout>  
 </ScrollView>  
</LinearLayout>

Drawable: - rounded\_button.xml

<?xml version="1.0" encoding="utf-8"?>  
<shape xmlns:android="http://schemas.android.com/apk/res/android">  
 <stroke  
 android:color="#6164A7"  
 />  
 <corners  
 android:radius="13dp" />  
 <solid android:color="#6164A7" />  
</shape>

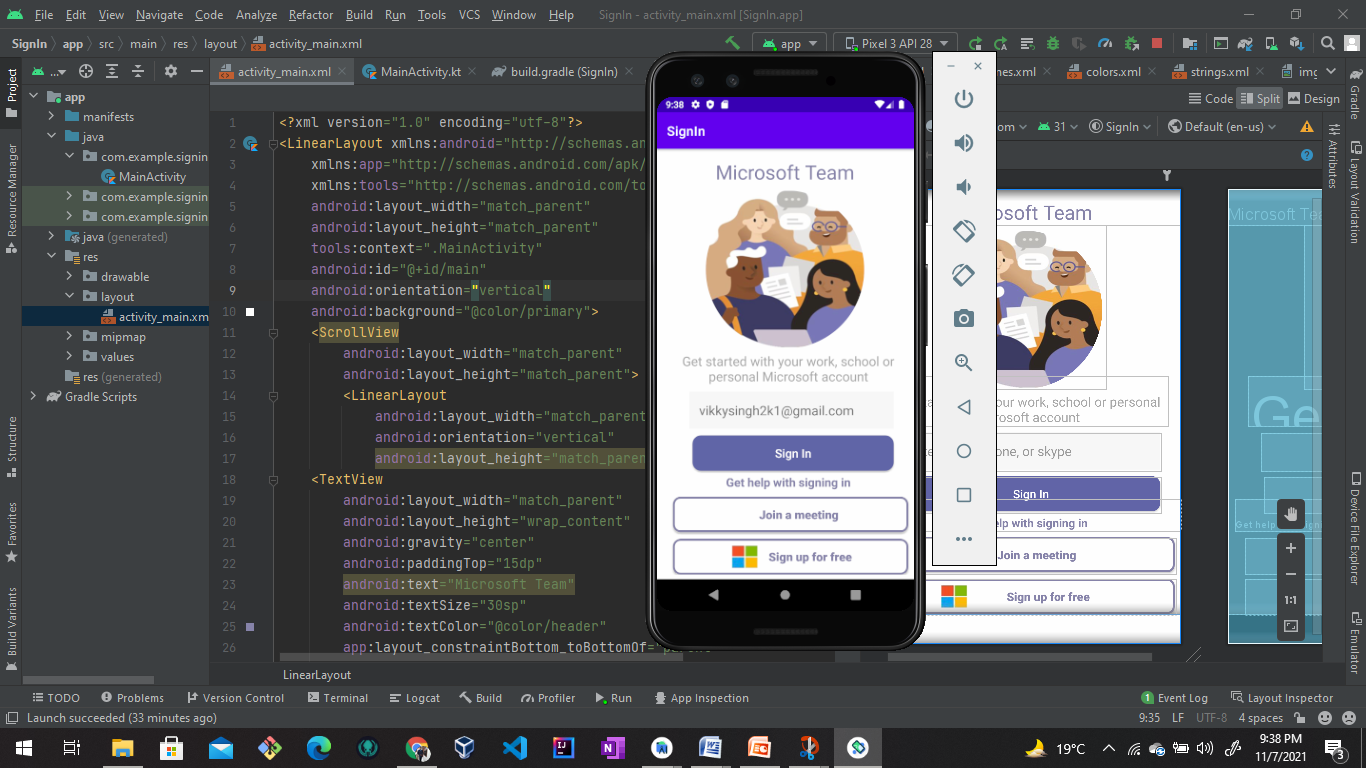
Dependencies



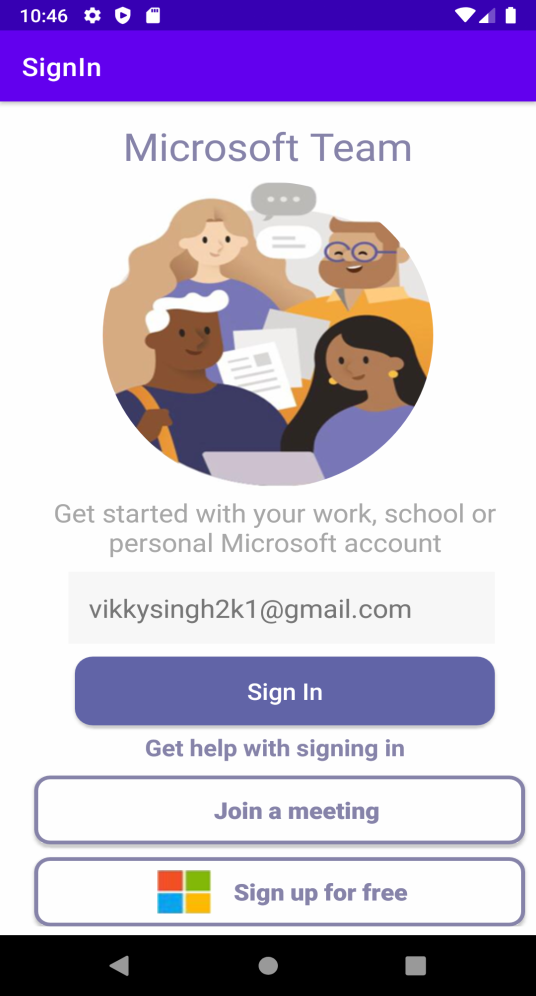
JAVA/KOTLIN

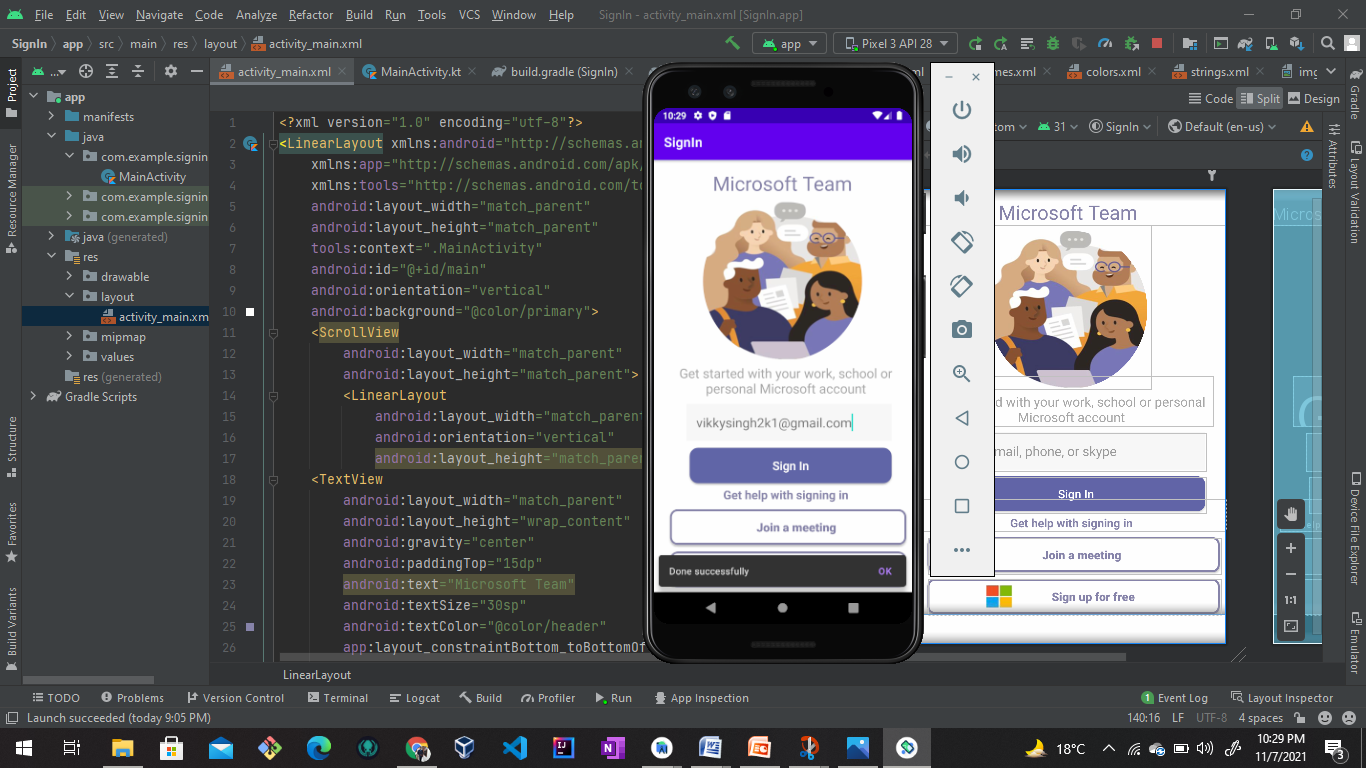
MainActivity.kt

package com.example.signin  
  
import androidx.appcompat.app.AppCompatActivity  
import android.os.Bundle  
import android.view.View  
import android.widget.Button  
import android.widget.LinearLayout  
import com.google.android.material.snackbar.Snackbar  
  
class MainActivity : AppCompatActivity() {  
 override fun onCreate(savedInstanceState: Bundle?) {  
 super.onCreate(savedInstanceState)  
 setContentView(R.layout.*activity\_main*)  
 var llmain: LinearLayout = findViewById(R.id.*main*);  
 var signIn: Button = findViewById(R.id.*Sing\_in*) as Button;  
 signIn.setOnClickListener **{** val actionSnackbar = Snackbar.make(llmain,"Done successfully", Snackbar.*LENGTH\_LONG*).setAction("Ok") **{** // Call action functions here  
 **}**.show()  
 **}** }  
}

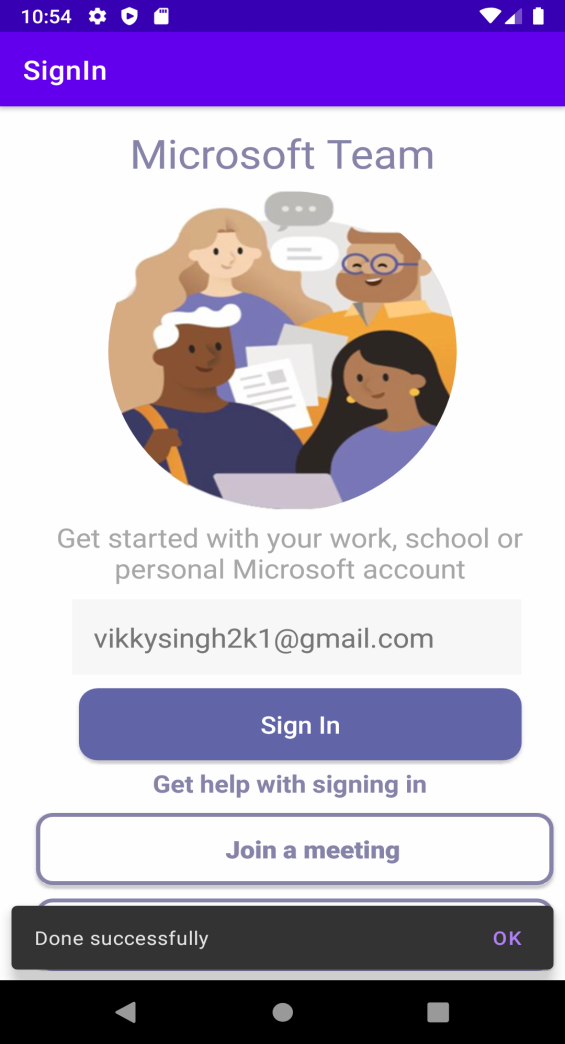


**Zoom view of Emulator**





**Zoom view of emulator**



Q.2. Make an application of android which includes two activities A and B. Where A activity has a button named “send”. On clicking send button, Send two user defined objects from A to B. Then write the state (attributes) of each of the object in Activity B on textview.

Ans

XML activity\_main.xml(First Activity)

<?xml version="1.0" encoding="utf-8"?>  
<RelativeLayout 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="@drawable/background">  
  
 <TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="5dp"  
 android:layout\_marginBottom="30dp"  
 android:gravity="center"  
 android:text="Object Transfer"  
 android:textColor="#4E5969"  
 android:textSize="30sp"  
 android:textStyle="bold" />  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_centerInParent="true"  
 android:layout\_marginStart="10dp"  
 android:layout\_marginTop="10dp"  
 android:layout\_marginEnd="20dp"  
 android:layout\_marginBottom="10dp"  
 android:orientation="vertical">  
  
 <ImageView  
 android:layout\_width="260dp"  
 android:layout\_height="220dp"  
 android:layout\_gravity="center"  
 android:layout\_marginBottom="5dp"  
 android:scaleType="fitCenter"  
  
 android:src="@drawable/main" />  
 <TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:gravity="center"  
 android:text="First Object"  
 android:textColor="#4E5969"  
 android:textSize="20sp"  
 android:textStyle="bold" />  
  
  
  
 <EditText  
 android:id="@+id/object1"  
 android:layout\_width="match\_parent"  
 android:layout\_height="48dp"  
 android:layout\_marginBottom="10dp"  
 android:layout\_marginTop="10dp"  
 android:background="@drawable/edit\_text\_background"  
 android:drawableStart="@drawable/ic\_user"  
 android:drawablePadding="10dp"  
 android:ems="10"  
 android:hint="Username"  
 android:inputType="textPersonName"  
 android:padding="10dp"  
 android:textColor="@color/white"  
 android:textSize="21sp"  
 android:textStyle="bold" />  
  
  
 <EditText  
 android:id="@+id/object2"  
 android:layout\_width="match\_parent"  
 android:layout\_height="48dp"  
 android:layout\_marginBottom="10dp"  
 android:background="@drawable/edit\_text\_background"  
 android:drawableStart="@drawable/ic\_password"  
 android:drawablePadding="10dp"  
 android:ems="10"  
 android:hint="Password"  
 android:inputType="textPassword"  
 android:padding="10dp"  
 android:textColor="@color/white"  
 android:textSize="21sp"  
 android:textStyle="bold" />  
 <TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:gravity="center"  
 android:text="Second Object"  
 android:textColor="#4E5969"  
 android:textSize="20sp"  
 android:textStyle="bold" />  
  
 <EditText  
 android:id="@+id/object3"  
 android:layout\_width="match\_parent"  
 android:layout\_height="48dp"  
 android:layout\_marginBottom="10dp"  
 android:layout\_marginTop="6dp"  
 android:background="@drawable/edit\_text\_background"  
 android:drawableStart="@drawable/ic\_user"  
 android:drawablePadding="10dp"  
 android:ems="10"  
 android:hint="Username"  
 android:inputType="textPersonName"  
 android:padding="10dp"  
 android:textColor="@color/white"  
 android:textSize="21sp"  
 android:textStyle="bold" />  
  
  
 <EditText  
 android:id="@+id/object4"  
 android:layout\_width="match\_parent"  
 android:layout\_height="48dp"  
  
 android:background="@drawable/edit\_text\_background"  
 android:drawableStart="@drawable/ic\_password"  
 android:drawablePadding="10dp"  
 android:ems="10"  
 android:hint="Password"  
 android:inputType="textPassword"  
 android:padding="10dp"  
 android:textColor="@color/white"  
 android:textSize="21sp"  
 android:textStyle="bold" />  
  
 <androidx.appcompat.widget.AppCompatButton  
 android:id="@+id/Send"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginLeft="55dp"  
 android:layout\_marginTop="20dp"  
 android:layout\_marginRight="30dp"  
 android:background="@drawable/rounded\_button"  
 android:gravity="center"  
  
 android:padding="15dp"  
 android:text="Send"  
 android:textAllCaps="false"  
 android:textColor="#FFFFFFFF"  
 android:textSize="22sp"  
 android:textStyle="bold" />  
  
 </LinearLayout>  
  
</RelativeLayout>

activity\_second.xml (Second Activity)

<?xml version="1.0" encoding="utf-8"?>  
<RelativeLayout 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="horizontal"  
 android:largeScreens="true"  
 tools:context=".MainActivity"  
 android:background="@drawable/img\_1"  
 >  
 <TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="50dp"  
 android:layout\_marginLeft="10dp"  
 android:layout\_marginTop="10dp"  
 android:layout\_marginRight="20dp"  
 android:gravity="center"  
 android:text="Second Activity"  
 android:textColor="#DAB8D3E4"  
 android:textSize="33sp"  
 android:textStyle="bold" />  
 <androidx.cardview.widget.CardView  
 android:layout\_width="match\_parent"  
 android:layout\_height="451dp"  
 android:layout\_marginStart="1dp"  
 android:layout\_marginTop="150dp"  
 android:alpha="0.6"  
 app:cardBackgroundColor="#DAB8D3E4"  
 app:cardCornerRadius="15dp"  
 app:cardElevation="10dp"  
 app:cardMaxElevation="12dp"  
 app:cardPreventCornerOverlap="true"  
 app:cardUseCompatPadding="true">  
 <TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="50dp"  
 android:layout\_marginLeft="10dp"  
 android:layout\_marginTop="10dp"  
 android:layout\_marginRight="20dp"  
 android:text="First object"  
 android:textColor="#151533"  
 android:textSize="33sp"  
 android:textStyle="bold" />  
 <TextView  
 android:id="@+id/display"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginLeft="20dp"  
 android:layout\_marginTop="80dp"  
 android:textColor="#434367"  
 android:textSize="22sp"  
 android:textStyle="bold"></TextView>  
 <TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="50dp"  
 android:layout\_marginLeft="10dp"  
 android:layout\_marginTop="200dp"  
 android:layout\_marginRight="20dp"  
 android:text="Second object"  
 android:textColor="#151533"  
 android:textSize="33sp"  
 android:textStyle="bold" />  
 <TextView  
 android:id="@+id/display2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginLeft="20dp"  
 android:layout\_marginTop="260dp"  
 android:textColor="#434367"  
 android:textSize="22sp"  
 android:textStyle="bold"></TextView>  
 </androidx.cardview.widget.CardView>  
</RelativeLayout>

Java/kotlin

DataTransfer.kt (class use to pass object)

import java.io.Serializable  
  
class DataTransfer:Serializable{  
 var username="";  
 var Password="";  
  
 constructor(name: String, password:String ){  
 username=name;  
 Password=password;  
  
  
 }  
 constructor()  
}

MainActivity.kt

package com.example.senddata  
  
  
import android.content.Intent  
import androidx.appcompat.app.AppCompatActivity  
import android.os.Bundle  
import android.widget.Button  
import android.widget.EditText  
  
  
class MainActivity : AppCompatActivity() {  
 lateinit var editText:EditText  
 lateinit var editText2:EditText  
 lateinit var editText3:EditText  
 lateinit var editText4:EditText  
  
 override fun onCreate(savedInstanceState: Bundle?) {  
 super.onCreate(savedInstanceState)  
 setContentView(R.layout.*activity\_main*)  
 val btn=findViewById<Button>(R.id.*Send*)  
 editText = findViewById(R.id.*object1*)  
 editText2 = findViewById(R.id.*object2*)  
 editText3 = findViewById(R.id.*object3*)  
 editText4 = findViewById(R.id.*object4*)  
 btn.setOnClickListener**{** val intent=Intent(this,SecondActivity::class.*java*)  
 val passingObject=DataTransfer()  
 val passingObject2=DataTransfer()  
 passingObject.username=editText.*text*.toString();  
 passingObject.Password=editText2.*text*.toString();  
 passingObject2.username=editText3.*text*.toString();  
 passingObject2.Password=editText4.*text*.toString();  
 intent.putExtra("object",passingObject)  
 intent.putExtra("object2", passingObject2)  
 startActivity(intent)  
 **}** }  
}

Drawable: - round\_button.xml(For button to make round)

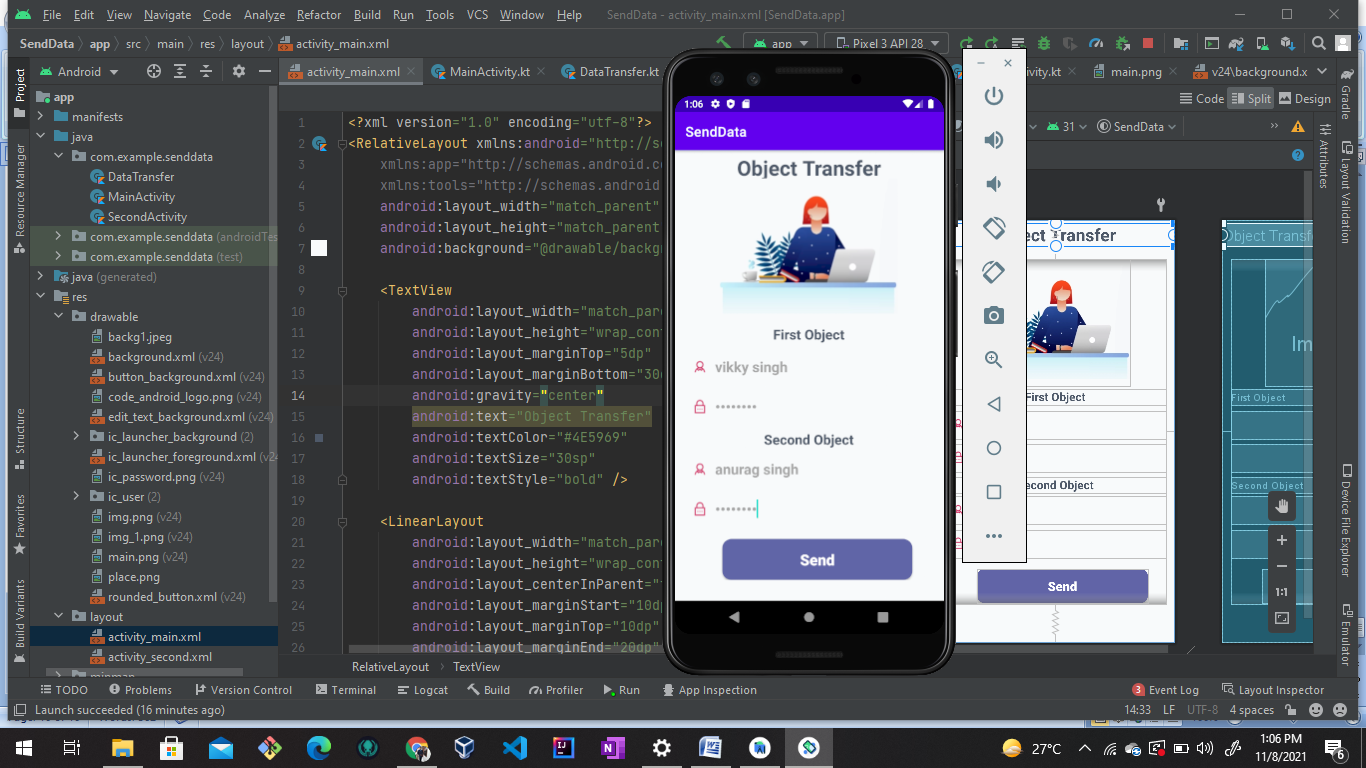
<?xml version="1.0" encoding="utf-8"?>  
<shape xmlns:android="http://schemas.android.com/apk/res/android">  
 <stroke  
 android:color="#6164A7"  
 />  
 <corners  
 android:radius="13dp" />  
  
 <solid android:color="#6164A7" />  
</shape>

Drawable: - edit\_text\_background.xml (for EditText Input Field)

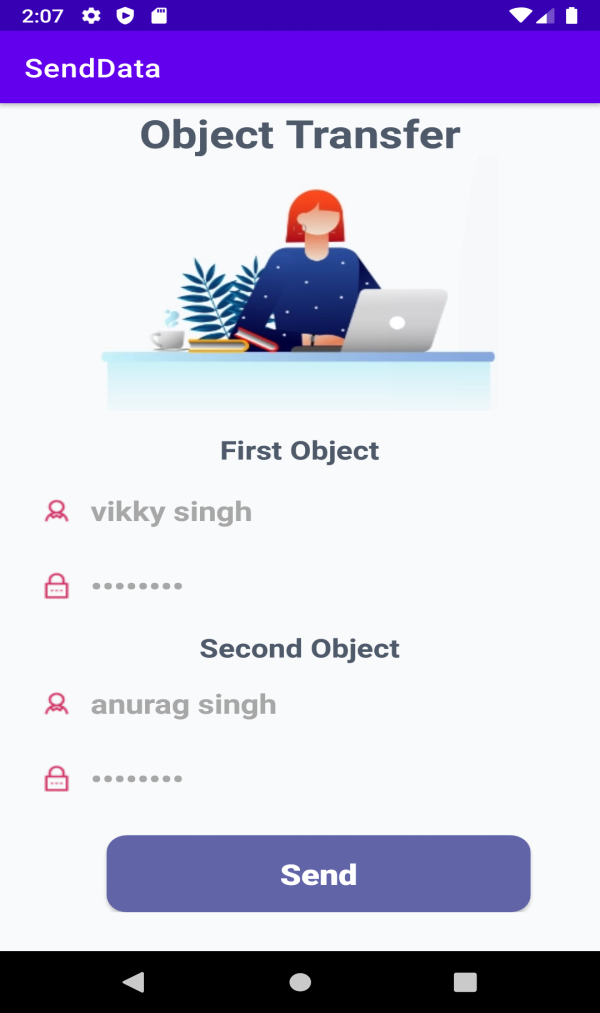
<?xml version="1.0" encoding="utf-8"?>  
<shape android:shape="rectangle"  
 xmlns:android="http://schemas.android.com/apk/res/android">  
 <solid android:color="@color/colorPrimary"/>  
 <corners android:radius="100dp"/>  
</shape>

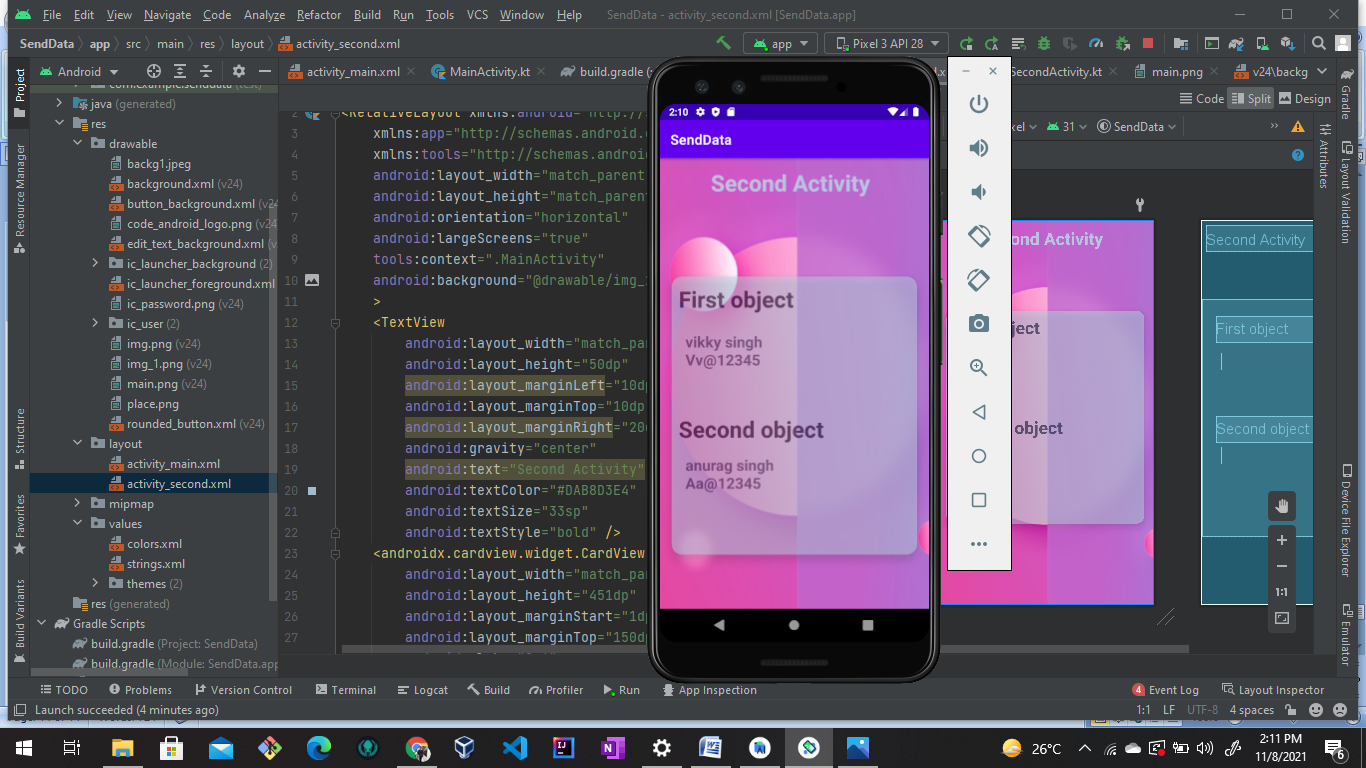
SecondActivity.kt

package com.example.senddata  
  
  
import android.content.Intent  
import androidx.appcompat.app.AppCompatActivity  
import android.os.Bundle  
import android.widget.Button  
import android.widget.EditText  
  
  
class MainActivity : AppCompatActivity() {  
 lateinit var editText:EditText  
 lateinit var editText2:EditText  
 lateinit var editText3:EditText  
 lateinit var editText4:EditText  
  
 override fun onCreate(savedInstanceState: Bundle?) {  
 super.onCreate(savedInstanceState)  
 setContentView(R.layout.*activity\_main*)  
 val btn=findViewById<Button>(R.id.*Send*)  
 editText = findViewById(R.id.*object1*)  
 editText2 = findViewById(R.id.*object2*)  
 editText3 = findViewById(R.id.*object3*)  
 editText4 = findViewById(R.id.*object4*)  
 btn.setOnClickListener**{** val intent=Intent(this,SecondActivity::class.*java*)  
 val passingObject=DataTransfer()  
 val passingObject2=DataTransfer()  
 passingObject.username=editText.*text*.toString();  
 passingObject.Password=editText2.*text*.toString();  
 passingObject2.username=editText3.*text*.toString();  
 passingObject2.Password=editText4.*text*.toString();  
 intent.putExtra("object",passingObject)  
 intent.putExtra("object2", passingObject2)  
 startActivity(intent)  
 **}** }  
}

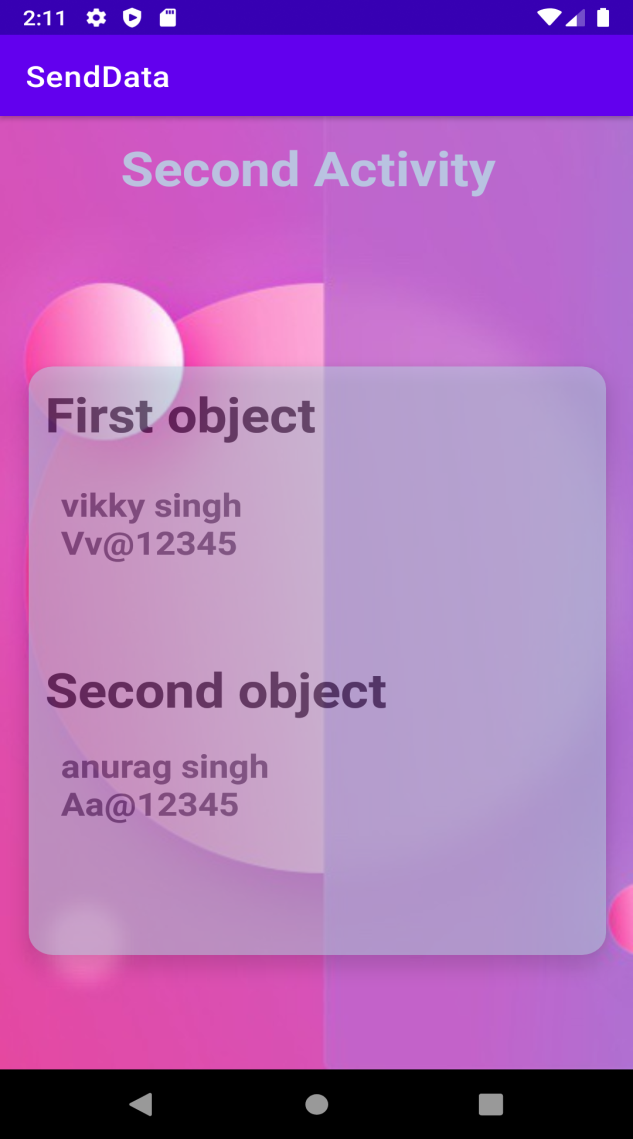


**Zoom view of Emulator**





**Zoom view of Emulator**



**Hosted Links: GitHub**

**Question1:-** [**https://github.com/vikky-10/SignIn-android**](https://github.com/vikky-10/SignIn-android)

**Question2:-** [**https://github.com/vikky-10/project2\_android**](https://github.com/vikky-10/project2_android)