Dialog:

Mainactciy.xml:

*<?*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"  
 tools:context=".MainActivity">  
  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/tv1"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginTop="20dp"  
 android:text="Your username is"  
 />  
  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/tv2"  
 android:layout\_centerHorizontal="true"  
 android:layout\_below="@id/tv1"  
 android:layout\_marginTop="20dp"  
 android:text="Your university prn is"  
 />  
  
 <Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/submit1"  
 android:layout\_below="@id/tv2"  
 android:layout\_marginTop="20dp"  
 android:text="Submit"  
 android:layout\_centerHorizontal="true"  
 />  
 <Button  
 android:id="@+id/branch"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Choose branch"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 android:onClick="showPopup"  
 android:layout\_below="@id/faculty"  
 android:layout\_centerHorizontal="true"  
 />  
  
 <Button  
 android:id="@+id/faculty"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="48dp"  
 android:text="Choose your faculty"  
 tools:layout\_editor\_absoluteX="131dp"  
 tools:layout\_editor\_absoluteY="237dp"  
 tools:ignore="MissingConstraints"  
 android:layout\_below="@id/submit1"  
 android:layout\_centerHorizontal="true"  
 />  
  
</RelativeLayout>

Mainact.java:

package com.example.practice\_prac17;  
  
import androidx.annotation.NonNull;  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
import android.view.ContextMenu;  
import android.view.Menu;  
import android.view.MenuInflater;  
import android.view.MenuItem;  
import android.view.View;  
import android.widget.Button;  
import android.widget.PopupMenu;  
import android.widget.TextView;  
import android.widget.Toast;  
  
public class MainActivity extends AppCompatActivity implements PopupMenu.OnMenuItemClickListener,Dialog.DialogListener  
{  
 Button b1,s1;  
 TextView t1,t2;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.activity\_main);  
 b1 = findViewById(R.id.faculty);  
 s1 = findViewById(R.id.submit1);  
 t1= findViewById(R.id.tv1);  
 t2=findViewById(R.id.tv2);  
 *// this is for context menu* registerForContextMenu(b1);  
 *//set an on click listener for the button s1* s1.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 openDialog();  
 }  
  
 });  
  
 }  
  
 *//this is for dialog box* public void openDialog(){  
 Dialog dialog= new Dialog();  
 dialog.show(getSupportFragmentManager(),"dialog");  
  
 }  
  
 @Override  
 public void applyText(String usrnnm, String prn) {  
 t1.setText(usrnnm);  
 t2.setText(prn);  
 }  
  
 *// this is for options menu* @Override  
 public boolean onCreateOptionsMenu(Menu menu) {  
 MenuInflater inflater = getMenuInflater();  
 inflater.inflate(R.menu.menu,menu);  
 return true;  
 }  
  
 @Override  
 public boolean onOptionsItemSelected(@NonNull MenuItem item) {  
 switch(item.getItemId()){  
 case R.id.item1:  
 Toast.makeText(this,"What do you need help with",Toast.LENGTH\_SHORT).show();  
 return true;  
  
 case R.id.item2:  
 Toast.makeText(this,"You are from First Year",Toast.LENGTH\_SHORT).show();  
 return true;  
  
 case R.id.item3:  
 Toast.makeText(this,"You are from Second Year",Toast.LENGTH\_SHORT).show();  
 return true;  
  
 case R.id.item4:  
 Toast.makeText(this,"You are from Third Year",Toast.LENGTH\_SHORT).show();  
 return true;  
  
 case R.id.item5:  
 Toast.makeText(this,"You are from Forth Year",Toast.LENGTH\_SHORT).show();  
 return true;  
 default:  
 return super.onOptionsItemSelected(item);  
  
 }  
  
 }  
*// this is for pop up menu* public void showPopup(View v){  
 PopupMenu popup = new PopupMenu(this,v);  
 popup.setOnMenuItemClickListener(this);  
 popup.inflate(R.menu.popupmenu);  
 popup.show();  
 }  
  
 @Override  
 public boolean onMenuItemClick(MenuItem item) {  
 switch(item.getItemId()){  
 case R.id.entc:  
 Toast.makeText(this,"ENTC branch selected",Toast.LENGTH\_SHORT).show();  
 return true;  
 case R.id.elx:  
 Toast.makeText(this,"Electronics branch selected",Toast.LENGTH\_SHORT).show();  
 return true;  
 case R.id.elcl:  
 Toast.makeText(this,"Electrical branch selected",Toast.LENGTH\_SHORT).show();  
 return true;  
 case R.id.mech:  
 Toast.makeText(this,"Mechanical branch selected",Toast.LENGTH\_SHORT).show();  
 return true;  
 case R.id.civil:  
 Toast.makeText(this,"Civil branch selected",Toast.LENGTH\_SHORT).show();  
 return true;  
 case R.id.cs:  
 Toast.makeText(this,"Computer Science branch selected",Toast.LENGTH\_SHORT).show();  
 return true;  
 default:  
 return false;  
 }  
 }  
  
 *// this is for context menu* @Override  
 public void onCreateContextMenu(ContextMenu menu, View v, ContextMenu.ContextMenuInfo menuInfo) {  
 super.onCreateContextMenu(menu, v, menuInfo);  
 getMenuInflater().inflate(R.menu.contextmenu,menu);  
 }  
  
 @Override  
 public boolean onContextItemSelected(@NonNull MenuItem item) {  
 switch(item.getItemId()){  
 case R.id.sci:  
 Toast.makeText(this,"Science faculty selected",Toast.LENGTH\_SHORT).show();  
 return true;  
 case R.id.arts:  
 Toast.makeText(this,"Arts faculty selected",Toast.LENGTH\_SHORT).show();  
 return true;  
  
 case R.id.com:  
 Toast.makeText(this,"Commerce faculty selected",Toast.LENGTH\_SHORT).show();  
 return true;  
 case R.id.other:  
 Toast.makeText(this,"Other faculty selected",Toast.LENGTH\_SHORT).show();  
 return true;  
 default:  
 return super.onContextItemSelected(item);  
 }  
  
  
 }  
}

dialog.java:

package com.example.practice\_prac17;  
  
import android.content.Context;  
import android.content.DialogInterface;  
import android.os.Bundle;  
import android.view.LayoutInflater;  
import android.view.View;  
import android.widget.EditText;  
  
import androidx.annotation.NonNull;  
import androidx.annotation.Nullable;  
import androidx.appcompat.app.AlertDialog;  
import androidx.appcompat.app.AppCompatDialogFragment;  
  
public class Dialog extends AppCompatDialogFragment {  
 private EditText editTextusername;  
 private EditText editTextprn;  
 private DialogListener listenr;  
 @NonNull  
 @Override  
 public android.app.Dialog onCreateDialog(@Nullable Bundle savedInstanceState) {  
 AlertDialog.Builder builder = new AlertDialog.Builder(getActivity());  
 LayoutInflater inflater = getActivity().getLayoutInflater();  
 View view = inflater.inflate(R.layout.*layout\_dialog*,null);  
  
 builder.setView(view)  
 .setTitle("Login")  
 .setNegativeButton("cancel", new DialogInterface.OnClickListener() {  
 @Override  
 public void onClick(DialogInterface dialog, int which) {  
  
 }  
 })  
 .setPositiveButton("ok", new DialogInterface.OnClickListener() {  
 @Override  
 public void onClick(DialogInterface dialog, int which) {  
 String usrnnm = editTextusername.getText().toString();  
 String prn = editTextprn.getText().toString();  
 listenr.applyText(usrnnm,prn);  
 }  
 });  
  
 editTextusername = view.findViewById(R.id.*usrnm*);  
 editTextprn = view.findViewById(R.id.*prn*);  
 return builder.create();  
 }  
  
 @Override  
 public void onAttach(Context context) {  
 super.onAttach(context);  
 try {  
 listenr = (DialogListener)context;  
 } catch (ClassCastException e) {  
 throw new ClassCastException(context.toString()+"must implement Example Dialog Listener");  
 }  
 }  
  
 public interface DialogListener{  
 void applyText(String usrnnm ,String prn);  
 }  
}

dialog.xml:

context.xml:

*<?*xml version="1.0" encoding="utf-8"*?>*<menu xmlns:android="http://schemas.android.com/apk/res/android">  
  
 <item  
 android:id="@+id/sci"  
 android:title="Science"  
 />  
  
 <item  
 android:id="@+id/arts"  
 android:title="Arts"  
 />  
 <item  
 android:id="@+id/com"  
 android:title="Commerce"  
 />  
 <item  
 android:id="@+id/other"  
 android:title="Others"  
 />  
</menu>

Dialglayou.xml:

*<?*xml version="1.0" encoding="utf-8"*?>*<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:padding="16dp"  
 >  
  
 <EditText  
 android:layout\_width="wrap\_content"  
 android:layout\_height="48dp"  
 android:id="@+id/usrnm"  
 android:hint="Enter your username"/>  
  
 <EditText  
 android:layout\_width="wrap\_content"  
 android:layout\_height="48dp"  
 android:layout\_below="@id/usrnm"  
 android:hint="Enter your university prn"  
 android:inputType="number"  
 android:id="@+id/prn"  
/>  
</RelativeLayout>

Option

*<?*xml version="1.0" encoding="utf-8"*?>*<menu xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto">  
  
 <item  
 android:id = "@+id/item1"  
 android:icon="@drawable/ic\_android\_black\_24dp"  
 android:title="Help"  
 app:showAsAction="ifRoom"  
 />  
  
 <item  
 android:id = "@+id/item2"  
 android:title="FE"  
 app:showAsAction="never"  
 />  
  
 <item  
 android:id = "@+id/item3"  
 android:title="SE"  
 app:showAsAction="never"  
 />  
  
 <item  
 android:id = "@+id/item4"  
 android:title="TE"  
 app:showAsAction="never"  
 />  
  
 <item  
 android:id = "@+id/item5"  
 android:title="BE"  
 app:showAsAction="never"  
 />  
  
  
</menu>

Popup:

*<?*xml version="1.0" encoding="utf-8"*?>*<menu xmlns:android="http://schemas.android.com/apk/res/android">  
  
 <item  
 android:id="@+id/entc"  
 android:title="ENTC"  
 />  
  
 <item  
 android:id="@+id/elx"  
 android:title="Electronics"  
 />  
 <item  
 android:id="@+id/cs"  
 android:title="Computer Science"  
 />  
  
 <item  
 android:id="@+id/mech"  
 android:title="Mechanical"  
 />  
 <item  
 android:id="@+id/elcl"  
 android:title="Electrical"  
 />  
 <item  
 android:id="@+id/it"  
 android:title="Information Technology"  
 />  
  
 <item  
 android:id="@+id/civil"  
 android:title="Civil"  
 />  
  
</menu>

Resource:

<vector android:autoMirrored="true" android:height="24dp"  
android:tint="#000000" android:viewportHeight="24"  
android:viewportWidth="24" android:width="24dp" xmlns:android="http://schemas.android.com/apk/res/android">  
<path android:fillColor="@android:color/white" android:pathData="M19,3h-4.18C14.4,1.84 13.3,1 12,1c-1.3,0 -2.4,0.84 -2.82,2L5,3c-1.1,0 -2,0.9 -2,2v14c0,1.1 0.9,2 2,2h14c1.1,0 2,-0.9 2,-2L21,5c0,-1.1 -0.9,-2 -2,-2zM12,3c0.55,0 1,0.45 1,1s-0.45,1 -1,1 -1,-0.45 -1,-1 0.45,-1 1,-1zM14,17L7,17v-2h7v2zM17,13L7,13v-2h10v2zM17,9L7,9L7,7h10v2z"/>  
</vector>