

LAB5:

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">

    <TextView
        android:id="@+id/textView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="TextView"
        android:textSize="20sp"
        android:textStyle="bold"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.498"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.332" />

    <Button
        android:id="@+id/button"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Button"
        android:onClick="Showpopup"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/textView" />

    <TextView
        android:id="@+id/textView2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="40dp"
        android:text="Username"
        app:layout_constraintEnd_toEndOf="@+id/textView"
        app:layout_constraintHorizontal_bias="0.0"
        app:layout_constraintStart_toStartOf="@+id/textView"
        app:layout_constraintTop_toBottomOf="@+id/textView" />

    <TextView
        android:id="@+id/textView3"
        android:layout_width="wrap_content"
```

```

        android:layout_height="wrap_content"
        android:layout_marginTop="36dp"
        android:text="Password"
        app:layout_constraintEnd_toEndOf="@+id/textView2"
        app:layout_constraintHorizontal_bias="0.0"
        app:layout_constraintStart_toStartOf="@+id/textView2"
        app:layout_constraintTop_toBottomOf="@+id/textView2" />

<Button
    android:id="@+id/button2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="40dp"
    android:text="Open Dialog"
    app:layout_constraintEnd_toEndOf="@+id/button"
    app:layout_constraintHorizontal_bias="0.487"
    app:layout_constraintStart_toStartOf="@+id/button"
    app:layout_constraintTop_toBottomOf="@+id/button" />

</androidx.constraintlayout.widget.ConstraintLayout>

```

Layout_dialog.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">

    <EditText
        android:id="@+id/editTextTextPassword"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="52dp"
        android:ems="10"
        android:hint="Password"
        android:inputType="textPassword"
        app:layout_constraintEnd_toEndOf="@+id/editTextTextPersonName"
        app:layout_constraintHorizontal_bias="0.0"

        app:layout_constraintStart_toStartOf="@+id/editTextTextPersonName"

        app:layout_constraintTop_toBottomOf="@+id/editTextTextPersonName" />

    <EditText
        android:id="@+id/editTextTextPersonName"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="64dp"

```

```

        android:ems="10"
        android:inputType="textPersonName"
        android:hint="First Name"
        android:text=""
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.497"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>

```

Context_menu.xml

```

<?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/Ite1"
        android:icon="@drawable/baseline_home_24"
        android:title="Item1"
        app:showAsAction="ifRoom"/>

    <item android:id="@+id/Ite2"
        android:icon="@drawable/baseline_home_24"
        android:title="Item2"
        app:showAsAction="never"/>
    <item android:id="@+id/Ite3"
        android:icon="@drawable/baseline_home_24"
        android:title="Item3"
        app:showAsAction="never">

        <menu>
            <item android:id="@+id/Ite4"
                android:icon="@drawable/baseline_home_24"
                android:title="Item4"
                app:showAsAction="never"/>

        </menu>
    </item>

</menu>

```

example_menu.xml

```

<?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/first"
        android:icon="@drawable/baseline_home_24"
        android:title="Item1"

```

```

app:showAsAction="ifRoom"/>

<item android:id="@+id/second"
    android:icon="@drawable/baseline_home_24"
    android:title="Item2"
    app:showAsAction="never"/>
<item android:id="@+id/third"
    android:icon="@drawable/baseline_home_24"
    android:title="Item3"
    app:showAsAction="never">

    <menu>
        <item android:id="@+id/fourth"
            android:icon="@drawable/baseline_home_24"
            android:title="Item4"
            app:showAsAction="never"/>

    </menu>
</item>

```

```

</menu>

```

Popup_menu.xml

```

<?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/baseline_home_24"
        android:title="Item1"
        app:showAsAction="ifRoom"/>

    <item android:id="@+id/Item2"
        android:icon="@drawable/baseline_home_24"
        android:title="Item2"
        app:showAsAction="never"/>
    <item android:id="@+id/Item3"
        android:icon="@drawable/baseline_home_24"
        android:title="Item3"
        app:showAsAction="never">

        <menu>
            <item android:id="@+id/Item4"
                android:icon="@drawable/baseline_home_24"
                android:title="Item4"
                app:showAsAction="never"/>

        </menu>
    </item>

```

</menu>

Mainactivity.java

```
package com.example.lab5;

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
Exampledialog.Exampledialoglistener {
    TextView username1,password1;
    @Override
    public void applyTexts(String username, String password) {
        username1.setText(username);
        password1.setText(password);
    }

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        TextView textView1=findViewById(R.id.textView);
        username1=findViewById(R.id.textView2);
        password1=findViewById(R.id.textView3);
        Button open=findViewById(R.id.button2);

        open.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                opendialog();
            }
        });

        registerForContextMenu(textView1);
    }

    public void opendialog(){
```

```

        Exampledialog exampledialog=new Exampledialog();

exampledialog.show(getSupportFragmentManager(),"example_dialog");
    }

    @Override
    public void onCreateContextMenu(ContextMenu menu, View v,
ContextMenu.ContextMenuInfo menuInfo) {    //context menu

        super.onCreateContextMenu(menu, v, menuInfo);
        menu.setHeaderTitle("Choose your option");
        //menu.add(0,v.getId(),0,"Item1");
        MenuInflater menuInflater=getMenuInflater();
        menuInflater.inflate(R.menu.context1_menu,menu);

    }

    @Override
    public boolean onContextItemSelected(@NonNull MenuItem item) {
        switch (item.getItemId()){

            case R.id.Ite1:
                Toast.makeText(this,"First item
Selcted",Toast.LENGTH_LONG).show();
                return true;
            case R.id.Ite2:
                Toast.makeText(this,"Second item
Selcted",Toast.LENGTH_LONG).show();
                return true;
            default:
                return super.onOptionsItemSelected(item);

        }

    }

    @Override
    public boolean onCreateOptionsMenu(Menu menu) {    //Options Menu
        MenuInflater menuInflater = getMenuInflater();
        menuInflater.inflate(R.menu.example_menu,menu);

        return true;
    }

    @Override
    public boolean onOptionsItemSelected(@NonNull MenuItem item) {

        switch (item.getItemId()){

            case R.id.first:
                Toast.makeText(this,"First item

```

```

        Selected", Toast.LENGTH_LONG).show();
        return true;
        case R.id.second:
            Toast.makeText(this, "Second item
Selected", Toast.LENGTH_LONG).show();
            return true;
        default:
            return super.onOptionsItemSelected(item);
    }
}

    public void Showpopup(View view) { ///Popup Menu
        PopupMenu popupMenu=new PopupMenu(MainActivity.this,view);
        popupMenu.setOnMenuItemClickListener(new
PopupMenu.OnMenuItemClickListener() {
            @Override
            public boolean onMenuItemClick(MenuItem menuItem) {
                switch (menuItem.getItemId()) {

                    case R.id.Item1:
                        Toast.makeText(MainActivity.this, "Item1
selected", Toast.LENGTH_LONG).show();
                        return true;
                    default:
                        return false;
                }
            }
        });
    }
}

```

Exampledialog.java

```

package com.example.lab5;

import android.app.AlertDialog;
import android.app.Dialog;
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.AppCompatActivity;

public class Exampdialog extends AppCompatActivity {
    public EditText username,password;
    private Exampdialoglistner exampdialoglistner;
    @NonNull

    @Override
    public 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);
        username=view.findViewById(R.id.editTextTextPersonName);
        password=view.findViewById(R.id.editTextTextPassword);
        builder.setView(view)
            .setTitle("Login")
            .setNegativeButton("cancel", new
DialogInterface.OnClickListener() {
                @Override
                public void onClick(DialogInterface
dialogInterface, int i) {

                }
            })
            .setPositiveButton("ok", new DialogInterface.OnClickListener()
{
                @Override
                public void onClick(DialogInterface dialogInterface, int
i) {
                    String username1=username.getText().toString();
                    String password1=password.getText().toString();
                    exampdialoglistner.applyTexts(username1,password1);
                }
            });

        return builder.create();
    }

    @Override
    public void onAttach(@NonNull Context context) {
        super.onAttach(context);
        try {
            exampdialoglistner=(Exampdialoglistner) context;
        } catch (ClassCastException e) {
            throw new ClassCastException(context.toString()+"must
implement ExampleDialogListner");
        }
    }
}

```



```

    public interface Exampledialoglistner{
        void applyTexts(String username,String password);
    }
}

```

