

LAB CYCLE 3

PROGRAM 11

AIM: Develop an android mobile application to create a registration form and accept data and display (name, age, gender, address, phone number, date of birth, qualification, job etc).

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"
    android:backgroundTint="@color/black"
    tools:context=".MainActivity">
    <TextView
        android:id="@+id/textView5"
        android:layout_width="70dp"
        android:layout_height="31dp"
        android:text="Address"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintHorizontal_bias="0.108"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
```

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

```
<TextView
```

```
    android:id="@+id/textView6"
```

```
    android:layout_width="70dp"
```

```
    android:layout_height="31dp"
```

```
    android:text="Phone No"
```

```
    app:layout_constraintBottom_toBottomOf="parent"
```

```
    app:layout_constraintHorizontal_bias="0.108"
```

```
    app:layout_constraintLeft_toLeftOf="parent"
```

```
    app:layout_constraintRight_toRightOf="parent"
```

```
    app:layout_constraintTop_toTopOf="parent"
```

```
    app:layout_constraintVertical_bias="0.574" />
```

```
<TextView
```

```
    android:id="@+id/textView7"
```

```
    android:layout_width="70dp"
```

```
    android:layout_height="31dp"
```

```
    android:text="DOB"
```

```
    app:layout_constraintBottom_toBottomOf="parent"
```

```
    app:layout_constraintHorizontal_bias="0.108"
```

```
    app:layout_constraintLeft_toLeftOf="parent"
```

```
    app:layout_constraintRight_toRightOf="parent"
```

```
    app:layout_constraintTop_toTopOf="parent"
```

```
    app:layout_constraintVertical_bias="0.667" />
```

```
<TextView
```

```
    android:id="@+id/textView8"
```

```
    android:layout_width="90dp"
```

```
android:layout_height="37dp"
android:text="Qualification"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintHorizontal_bias="0.115"
app:layout_constraintLeft_toLeftOf="parent"
app:layout_constraintRight_toRightOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.782" />
```

<TextView

```
android:id="@+id/textView9"
android:layout_width="70dp"
android:layout_height="31dp"
android:text="Job"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintHorizontal_bias="0.108"
app:layout_constraintLeft_toLeftOf="parent"
app:layout_constraintRight_toRightOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.865" />
```

<TextView

```
android:id="@+id/textView4"
android:layout_width="70dp"
android:layout_height="31dp"
android:text="Gender"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintHorizontal_bias="0.108"
```

```
app:layout_constraintLeft_toLeftOf="parent"
app:layout_constraintRight_toRightOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.41" />
```

<TextView

```
android:id="@+id/textView3"
android:layout_width="70dp"
android:layout_height="31dp"
android:text="Age"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintHorizontal_bias="0.108"
app:layout_constraintLeft_toLeftOf="parent"
app:layout_constraintRight_toRightOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.318" />
```

<TextView

```
android:id="@+id/textView"
android:layout_width="128dp"
android:layout_height="58dp"
android:text="DETAILS"
android:textAlignment="center"
android:textSize="30dp"
android:textColor="@color/black"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintHorizontal_bias="0.498"
app:layout_constraintLeft_toLeftOf="parent"
```

```
app:layout_constraintRight_toRightOf="parent"  
app:layout_constraintTop_toTopOf="parent"  
app:layout_constraintVertical_bias="0.073" />
```

<TextView

```
android:id="@+id/textView2"  
android:layout_width="70dp"  
android:layout_height="31dp"  
android:text="Name"  
app:layout_constraintBottom_toBottomOf="parent"  
app:layout_constraintHorizontal_bias="0.107"  
app:layout_constraintLeft_toLeftOf="parent"  
app:layout_constraintRight_toRightOf="parent"  
app:layout_constraintTop_toTopOf="parent"  
app:layout_constraintVertical_bias="0.231" />
```

<EditText

```
android:id="@+id/Name"  
android:layout_width="213dp"  
android:layout_height="67dp"  
android:ems="10"  
android:inputType="textPersonName"  
android:text=""  
app:layout_constraintBottom_toBottomOf="parent"  
app:layout_constraintHorizontal_bias="0.808"  
app:layout_constraintLeft_toLeftOf="parent"  
app:layout_constraintRight_toRightOf="parent"  
app:layout_constraintTop_toTopOf="parent"
```

```
        app:layout_constraintVertical_bias="0.189" />
<EditText
    android:id="@+id/Age"
    android:layout_width="197dp"
    android:layout_height="53dp"
    android:ems="10"
    android:inputType="textPersonName"
    android:text=""
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintHorizontal_bias="0.747"
    app:layout_constraintLeft_toLeftOf="parent"
    app:layout_constraintRight_toRightOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.296" />
```

```
<EditText
    android:id="@+id/Address"
    android:layout_width="204dp"
    android:layout_height="37dp"
    android:ems="10"
    android:inputType="textPersonName"
    android:text=""
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintHorizontal_bias="0.768"
    app:layout_constraintLeft_toLeftOf="parent"
    app:layout_constraintRight_toRightOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
```

<EditText

android:id="@+id/Phone"
android:layout_width="204dp"
android:layout_height="37dp"
android:ems="10"
android:inputType="textPersonName"
android:text=""
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintHorizontal_bias="0.768"
app:layout_constraintLeft_toLeftOf="parent"
app:layout_constraintRight_toRightOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.579" />

<EditText

android:id="@+id/Dob"
android:layout_width="205dp"
android:layout_height="50dp"
android:ems="10"
android:inputType="textPersonName"
android:text=""
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintHorizontal_bias="0.772"
app:layout_constraintLeft_toLeftOf="parent"
app:layout_constraintRight_toRightOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.664" />

<EditText

android:id="@+id/Qualification"
android:layout_width="214dp"
android:layout_height="62dp"
android:ems="10"
android:inputType="textPersonName"
android:text=""
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintHorizontal_bias="0.808"
app:layout_constraintLeft_toLeftOf="parent"
app:layout_constraintRight_toRightOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.769" />

<EditText

android:id="@+id/Job"
android:layout_width="214dp"
android:layout_height="52dp"
android:ems="10"
android:inputType="textPersonName"
android:text=""
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintHorizontal_bias="0.812"
app:layout_constraintLeft_toLeftOf="parent"
app:layout_constraintRight_toRightOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.861" />

<Button

```
    android:id="@+id/Submit"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Submit"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintHorizontal_bias="0.498"
    app:layout_constraintLeft_toLeftOf="parent"
    app:layout_constraintRight_toRightOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.961" />
```

<RadioGroup

```
    android:id="@+id/gender"
    android:layout_width="249dp"
    android:layout_height="70dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintHorizontal_bias="1.0"
    app:layout_constraintLeft_toLeftOf="parent"
    app:layout_constraintRight_toRightOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.403">
```

<RadioButton

```
    android:id="@+id/GenderM"
    android:layout_width="100dp"
    android:layout_height="33dp"
    android:text="male" />
```

```
<RadioButton
    android:id="@+id/GenderF"
    android:layout_width="100dp"
    android:layout_height="34dp"
    android:text="female" />
</RadioGroup>
</androidx.constraintlayout.widget.ConstraintLayout>
```

Activity_main2.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=".MainActivity2">
    <TextView
        android:id="@+id/Nameview"
        android:layout_width="110dp"
        android:layout_height="36dp"
        android:textColor="@color/black"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintHorizontal_bias="0.501"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintTop_toTopOf="parent"
```

```
app:layout_constraintVertical_bias="0.204" />
```

```
<TextView
```

```
    android:id="@+id/Age"
```

```
    android:layout_width="110dp"
```

```
    android:layout_height="36dp"
```

```
    android:textColor="@color/black"
```

```
    app:layout_constraintBottom_toBottomOf="parent"
```

```
    app:layout_constraintHorizontal_bias="0.498"
```

```
    app:layout_constraintLeft_toLeftOf="parent"
```

```
    app:layout_constraintRight_toRightOf="parent"
```

```
    app:layout_constraintTop_toTopOf="parent"
```

```
    app:layout_constraintVertical_bias="0.273" />
```

```
<TextView
```

```
    android:id="@+id/Address"
```

```
    android:layout_width="110dp"
```

```
    android:layout_height="36dp"
```

```
    android:text=""
```

```
    android:textColor="@color/black"
```

```
    app:layout_constraintBottom_toBottomOf="parent"
```

```
    app:layout_constraintHorizontal_bias="0.498"
```

```
    app:layout_constraintLeft_toLeftOf="parent"
```

```
    app:layout_constraintRight_toRightOf="parent"
```

```
    app:layout_constraintTop_toTopOf="parent"
```

```
    app:layout_constraintVertical_bias="0.348" />
```

```
<TextView
```

```
    android:id="@+id/Phone"
```

```
    android:layout_width="110dp"
```

```
    android:layout_height="36dp"
```

```
    android:text=""
```

```
android:textColor="@color/black"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintHorizontal_bias="0.498"
app:layout_constraintLeft_toLeftOf="parent"
app:layout_constraintRight_toRightOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.424" />
```

<TextView

```
android:id="@+id/Qualification"
android:layout_width="110dp"
android:layout_height="36dp"
android:text=""
android:textColor="@color/black"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintHorizontal_bias="0.501"
app:layout_constraintLeft_toLeftOf="parent"
app:layout_constraintRight_toRightOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.719" />
```

<TextView

```
android:id="@+id/Job"
android:layout_width="110dp"
android:layout_height="36dp"
android:text=""
android:textColor="@color/black"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintHorizontal_bias="0.498"
app:layout_constraintLeft_toLeftOf="parent"
app:layout_constraintRight_toRightOf="parent"
```

```
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.644" />
```

```
<TextView
```

```
    android:id="@+id/Dob"
    android:layout_width="110dp"
    android:layout_height="36dp"
    android:text=""
    android:textColor="@color/black"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintHorizontal_bias="0.498"
    app:layout_constraintLeft_toLeftOf="parent"
    app:layout_constraintRight_toRightOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.499" />
```

```
<TextView
```

```
    android:id="@+id/Gender"
    android:layout_width="110dp"
    android:layout_height="36dp"
    android:text=""
    android:textColor="@color/black"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintHorizontal_bias="0.498"
    app:layout_constraintLeft_toLeftOf="parent"
    app:layout_constraintRight_toRightOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.569" />
```

```
<TextView
```

```
    android:id="@+id/textView18"
    android:layout_width="150dp"
```

```
        android:layout_height="48dp"
        android:textAlignment="center"
        android:text="Details"
        android:textColor="#DC0D0D"
        android:textSize="40dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintHorizontal_bias="0.501"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.023" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

MainActivity.java

```
package com.example.lab11;

import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.RadioButton;
import android.widget.RadioGroup;
import java.lang.ref.PhantomReference;

public class MainActivity extends AppCompatActivity {

    Button Submit;

    EditText Name;

    EditText Age;
```

EditText Address;

EditText Job;

RadioButton Gender;

EditText Dob;

EditText Qualification;

EditText Phone;

RadioGroup gender;

RadioButton gen;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity_main);

Submit = (Button) findViewById(R.id.Submit);

Name=(EditText)findViewById(R.id.Name);

Age =(EditText)findViewById(R.id.Age);

Address =(EditText)findViewById(R.id.Address);

Phone=(EditText)findViewById(R.id.Phone);

Job =(EditText)findViewById(R.id.Job);

gender=(RadioGroup) findViewById(R.id.gender);

Dob=(EditText)findViewById(R.id.Dob);

Qualification=(EditText)findViewById(R.id.Qualification);

Submit.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

String na= Name.getText().toString();

String ag= Age.getText().toString();

```

        String ad= Address.getText().toString();
        String Do= Dob.getText().toString();
        String Qual= Qualification.getText().toString();
        String Jo= Job.getText().toString();
        String phn= Phone.getText().toString();
        int i=gender.getCheckedRadioButtonId();
        gen =(RadioButton) findViewById(i);
        Intent intent=new Intent(getApplicationContext(), MainActivity2.class);
        intent.putExtra("message_key", na);
        intent.putExtra("message_key1", ag);
        intent.putExtra("message_key2", ad);
        intent.putExtra("message_key6", Do);
        intent.putExtra("message_key5", Qual);
        intent.putExtra("message_key4", Jo);
        intent.putExtra("message_key3", gen.getText());
        intent.putExtra("message_key7", phn);
        startActivity(intent);
    }
    });
}
}

```

MainActivity2.java

```

package com.example.lab11;

import android.content.Intent;

import android.os.Bundle;

```



```
import android.widget.EditText;
import android.widget.RadioButton;
import android.widget.RadioGroup;
import android.widget.TextView;
import androidx.appcompat.app.AppCompatActivity;
import java.util.jar.Attributes;

public class MainActivity2 extends AppCompatActivity {

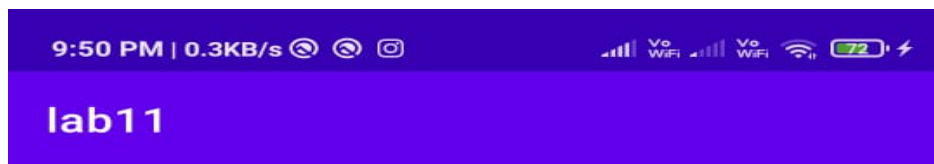
    TextView Name;
    TextView Age;
    TextView Address;
    TextView Qualifi;
    TextView Dob;
    TextView Gender;
    TextView Job;
    TextView Phone;

    @Override
    protected void onCreate(Bundle savedInstanceState){
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main2);

        Name = (TextView)findViewById(R.id.Nameview);
        Age =(TextView)findViewById(R.id.Age);
        Address=(TextView)findViewById(R.id.Address);
        Dob=(TextView)findViewById(R.id.Dob);
        Gender=(TextView) findViewById(R.id.Gender);
        Qualifi=(TextView)findViewById(R.id.Qualification);
        Job=(TextView)findViewById(R.id.Job);
```

```
Phone=(TextView)findViewById(R.id.Phone);
Intent intent=getIntent();
String na=intent.getStringExtra("message_key");
String ag=intent.getStringExtra("message_key1");
String ad=intent.getStringExtra("message_key2");
String gn=intent.getStringExtra("message_key3");
String Jo=intent.getStringExtra("message_key4");
String Qual=intent.getStringExtra("message_key5");
String Do=intent.getStringExtra("message_key6");
String phn=intent.getStringExtra("message_key7");
Name.setText(na);
Age.setText(ag);
Address.setText(ad);
Qualifi.setText(Qual);
Job.setText(Jo);
Phone.setText(phn);
Dob.setText(Do);
Gender.setText(gn);
}
}
```

OUTPUT



DETAILS

Name	<input type="text" value="MOHAMMED SALIH"/>
Age	<input type="text" value="22"/>
Gender	<input checked="" type="radio"/> male <input type="radio"/> female
Address	<input type="text" value="Rayamarakkar house"/>
Phone No	<input type="text" value="9988 / /6655"/>
DOB	<input type="text" value="10/10/2000"/>
Qualification	<input type="text" value="MCA"/>
Job	<input type="text" value="student"/>

lab11

Details

MOHAMMED
SALIH

22

Rayamarakkar
house

9988776655

10/10/2000

male

student

MCA

PROGRAM 12

AIM: Develop an application to implement ListViews in Android. Create a List with items and sub items, on clicking an item produce a Toast/Intent showing a description of item using its click and longClick Listener.

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">
    <ListView
        android:id="@+id/list"
        android:layout_width="419dp"
        android:layout_height="731dp"
        tools:ignore="MissingConstraints" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

Activity_main2.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">
<TextView
    android:id="@+id/textView"
    android:layout_width="413dp"
    android:layout_height="80dp"
    android:text="hf"
    tools:ignore="MissingConstraints" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

MainActivity.java

```
package com.example.lab11;

import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Adapter;
import android.widget.AdapterView;
import android.widget.AdapterView;
import android.widget.ArrayAdapter;
import android.widget.ListView;
import android.widget.SimpleAdapter;
import android.widget.TextView;
import android.widget.Toast;
import java.util.ArrayList;
import java.util.HashMap;
import java.util.List;
```

```

public class MainActivity extends AppCompatActivity {

    String[] Mobiles={"APPLE","ORANGE","GRAPES","PINEAPPLE"};

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

        ListView ls=(ListView) findViewById(R.id.list);

        TextView t1=

            (TextView) findViewById(R.id.textView);

        ArrayAdapter<String> adapter=new ArrayAdapter<String>(this,

            R.layout.activity_main2,R.id.textView, Mobiles);

        ls.setAdapter(adapter);

        ls.setOnItemClickListener(new AdapterView.OnItemClickListener() {

            @Override

            public void onItemClick(AdapterView<?> parent, View view, int

                position, long id) {

                String value=adapter.getItem(position);

                Toast.makeText(getApplicationContext(),value,Toast.LENGTH_LONG).show();

            }

        });

        ls.setOnItemLongClickListener(new

        AdapterView.OnItemLongClickListener()

        {

            @Override

            public boolean onItemLongClick(AdapterView<?> parent, View view,

                int position, long id) {

```

```

        if (position==0)
        {

Toast.makeText(getApplicationContext(),"APPLE",Toast.LENGTH_LONG).show();

        }
        if (position==1)
        {

Toast.makeText(getApplicationContext(),"ORANGE",Toast.LENGTH_LONG).show();

        }
        if (position==2)
        {

Toast.makeText(getApplicationContext(),"GRAPES",Toast.LENGTH_LONG).show();

        }
        if (position==3)
        {

Toast.makeText(getApplicationContext(),"PINEAPPLE",Toast.LENGTH_LONG).show()
;

        }

        return true;

    }

});

}

}

```

MainActivity2.java


```
package com.example.lab11;

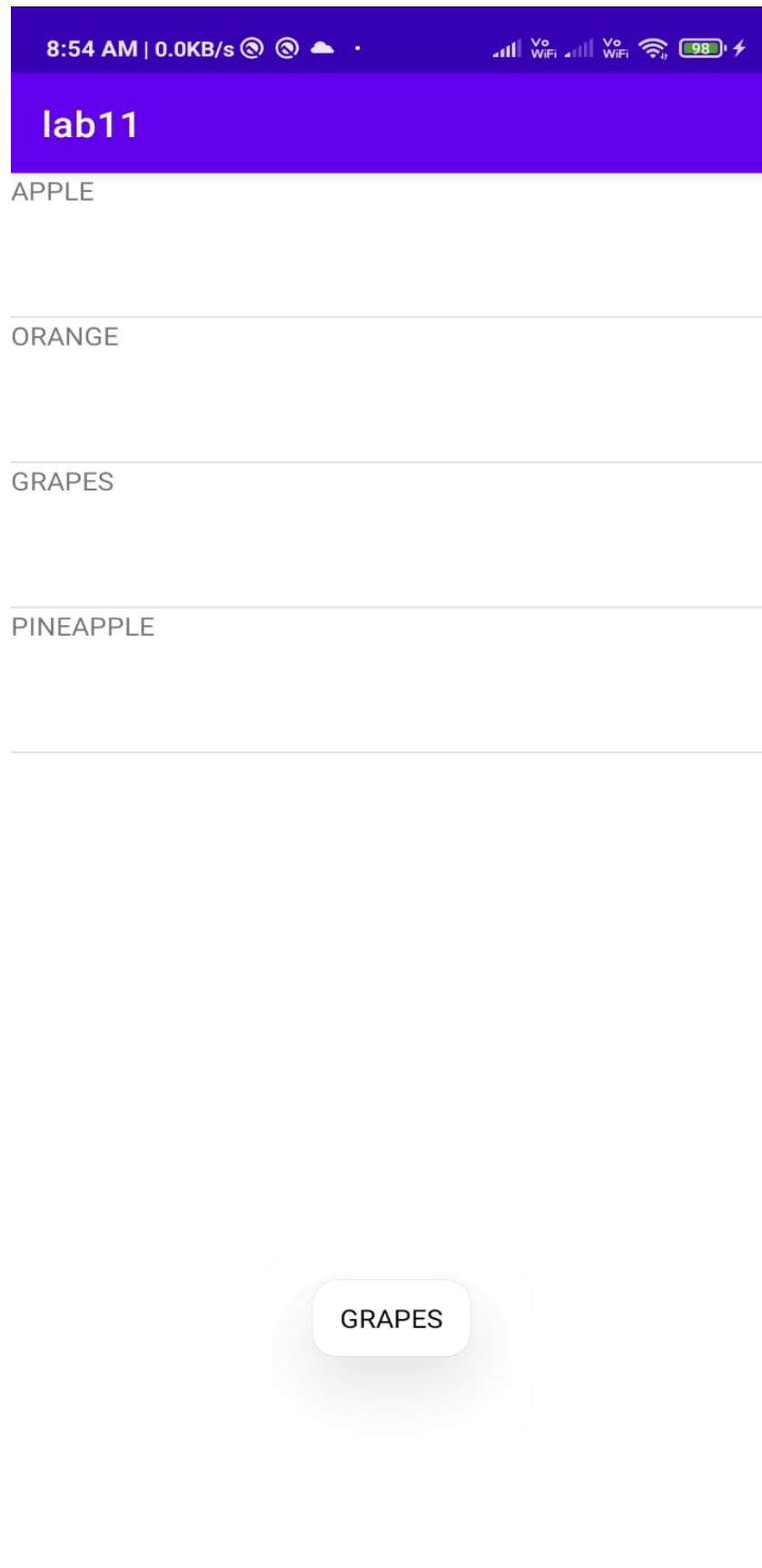
import android.content.Intent;
import android.os.Bundle;
import android.widget.EditText;
import android.widget.RadioButton;
import android.widget.RadioGroup;
import android.widget.TextView;
import androidx.appcompat.app.AppCompatActivity;
import java.util.jar.Attributes;

public class MainActivity2 extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState){
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main2);

    }
}
```

OUTPUT



PROGRAM 13

AIM: Develop an android mobile application to display option menu and context menu.

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:layout_marginTop="252dp"
        android:textColor="@color/design_default_color_error"
        android:text="Long Press me"
        android:textStyle="bold"
        android:textSize="30dp"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

</androidx.constraintlayout.widget.ConstraintLayout>
```

Menu_context.xml

```
<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android">
    <item android:id="@+id/item1"
        android:title="save"></item>
    <item android:id="@+id/item2"
        android:title="copy"></item>
</menu>
```

Menu_options.xml

```
<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android">
    <item android:id="@+id/item1"
        android:title="MY ACCOUNT"></item>
    <item android:id="@+id/item2"
        android:title="HISTORY"></item>
    <item android:id="@+id/item3"
        android:title="LOGOUT"></item>
</menu>
```

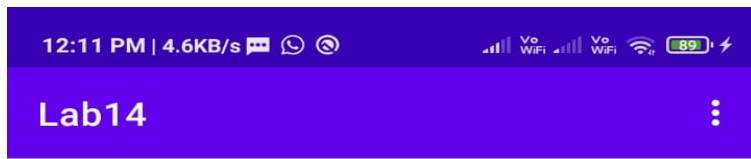
MainActivity.java

```
package com.example.lab14;

import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.Menu;
import android.view.MenuInflater;
```

```
import android.view.View;
import android.widget.TextView;
import android.view.ContextMenu;
public class MainActivity extends AppCompatActivity {
    TextView text;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        text = (TextView) findViewById(R.id.textview);
        registerForContextMenu(text);
    }
    @Override
    public boolean onCreateOptionsMenu(Menu menu) {
        MenuInflater inflater = getMenuInflater();
        inflater.inflate(R.menu.menu_options, menu);
        return super.onCreateOptionsMenu(menu);
    }
    @Override
    public void onCreateContextMenu(ContextMenu menu, View v,
                                   ContextMenu.ContextMenuInfo menuInfo) {
        super.onCreateContextMenu(menu, v, menuInfo);
        MenuInflater inflater = getMenuInflater();
        inflater.inflate(R.menu.menu_context, menu);
    }
}
```

OUTPUT

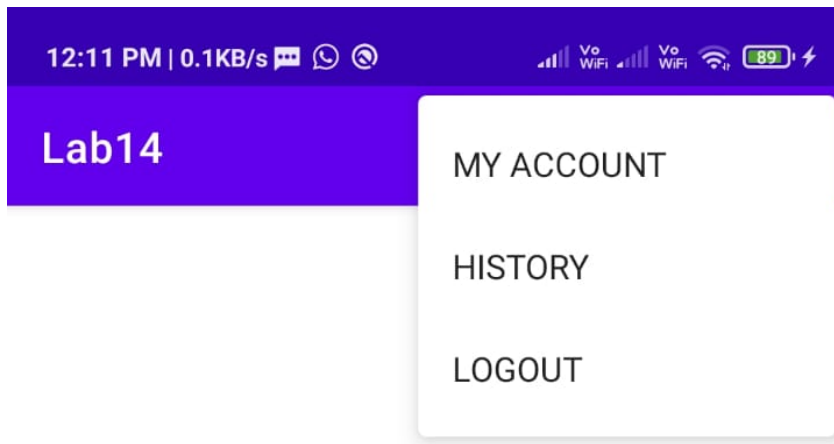


Long Press me

save

copy





Long Press me

PROGRAM 14

AIM: Develop an android mobile application to implement alert dialogs.

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">

    <Button

        android:id="@+id/button"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="EXIT"
        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="0.455" />

</androidx.constraintlayout.widget.ConstraintLayout>
```


MainActivity.java

```
package com.example.lab11;

import android.app.Activity;
import android.app.AlertDialog;
import android.content.DialogInterface;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.Toast;

public class MainActivity extends Activity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        final AlertDialog.Builder builder = new
        AlertDialog.Builder(MainActivity.this);

        Button b = findViewById(R.id.button);
        b.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {

                builder.setTitle("ALERT");
                builder.setMessage("do you want to exit?");
```

```

        builder.setPositiveButton("yes", new
DialogInterface.OnClickListener() {

            @Override

            public void onClick(DialogInterface dialog, int which) {

                finish();

            }

        });

        builder.setNegativeButton("NO", new
DialogInterface.OnClickListener() {

            @Override

            public void onClick(DialogInterface dialog, int which) {

                dialog.cancel();

            }

        });

        AlertDialog alertDialog = builder.create();

        alertDialog.show();

    }

    //      AlertDialog alertDialog = builder.create();

    });

}

}

```

OUTPUT



EXIT

8:59 AM | 4.5KB/s



ALERT

do you want to exit?

NO

YES

PROGRAM 15

AIM: Develop an android mobile application to create an alarm clock.

Activity_main.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">
    <TimePicker
        android:id="@+id/timepicker"
        android:layout_width="313dp"
        android:layout_height="wrap_content"
        android:layout_alignParentTop="true"
        android:layout_alignParentEnd="true"
        android:layout_marginTop="295dp"
        android:layout_marginEnd="53dp">
    </TimePicker>
    <TextClock
        android:id="@+id/textclock"
        android:layout_width="200dp"
        android:layout_height="100dp"
        android:layout_alignParentEnd="true"
        android:layout_alignParentBottom="true"
        android:layout_marginEnd="109dp"
```

```
        android:layout_marginBottom="502dp">
    </TextClock>
</RelativeLayout>
```

MainActivity.java

```
package com.example.lab14;

import androidx.appcompat.app.AppCompatActivity;
import android.media.Ringtone;
import android.media.RingtoneManager;
import android.os.Bundle;
import android.widget.TextClock;
import android.widget.TimePicker;

import com.example.lab14.R;

import java.util.Timer;
import java.util.TimerTask;

public class MainActivity extends AppCompatActivity {
    TimePicker tp;
    TextClock tc;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        tp = findViewById(R.id.timepicker);
        tc = findViewById(R.id.textclock);
```

Ringtone r=

```
RingtoneManager.getRingtone(getApplicationContext(),RingtoneManager.ge  
tDefaultUri(RingtoneManager.TYPE_NOTIFICATION));
```

```
Timer t = new Timer();
```

```
t.scheduleAtFixedRate(new TimerTask() {
```

```
    @Override
```

```
    public void run() {
```

```
        if(tc.getText().toString().equals(AlarmTime())){
```

```
            r.play();
```

```
        }else{
```

```
            r.stop();
```

```
        }
```

```
    }
```

```
},0,1000);
```

```
}
```

```
public String AlarmTime(){
```

```
    Integer alarmHours = tp.getCurrentHour();
```

```
    Integer alarmMinutes = tp.getCurrentMinute();
```

```
    String stringAlarmMinutes;
```

```
    if(alarmMinutes<10){
```

```
        stringAlarmMinutes="0";
```

```
stringAlarmMinutes=stringAlarmMinutes.concat(alarmMinutes.toString());
```

```
    }else{
```

```
        stringAlarmMinutes=alarmMinutes.toString();
```

```
    }
```

```
String stringAlarmTime;

if(alarmHours>12){

    alarmHours=alarmHours-12;

stringAlarmTime=alarmHours.toString().concat(":").concat(stringAlarmMinut
es).concat("PM");

    }else {

stringAlarmTime=alarmHours.toString().concat(":").concat(stringAlarmMinut
es).concat("AM");

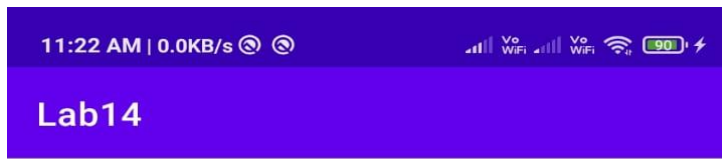
    }

    return stringAlarmTime;

}

}
```


OUTPUT



11:22 am

