EXPERIMENT NO:11
DATE:28/02/2022

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).

SOURCE CODE:

activity_main.xml

```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"
    android:textAlignment="center"
    android:background="@color/colorPrimary"
    tools:context=".MainActivity">

    <EditText
        android:id="@+id/name"
        android:layout_width="300dp"
        android:layout_height="40dp"
        android:layout_marginTop="100dp"
        android:layout_marginLeft="50dp"
        android:hint="Name"
        android:textAlignment="center"

        />
    <EditText
        android:id="@+id/age"
        android:layout_width="300dp"
        android:layout_height="40dp"
        android:layout_marginTop="150dp"
        android:layout_marginLeft="50dp"
        android:hint="Age"
        android:textAlignment="center"

        />
    <EditText
        android:id="@+id/gender"
        android:layout_width="300dp"
        android:layout_height="40dp"
        android:layout_marginTop="200dp"
```

```
      android:layout_marginLeft="50dp"
      android:hint="Gender"
      android:textAlignment="center"

      />
<EditText
      android:id="@+id/address"
      android:layout_width="300dp"
      android:layout_height="40dp"
      android:layout_marginTop="250dp"
      android:layout_marginLeft="50dp"
      android:hint="Address"
      android:textAlignment="center"

      />
<EditText
      android:id="@+id/phnno"
      android:layout_width="300dp"
      android:layout_height="40dp"
      android:layout_marginTop="300dp"
      android:layout_marginLeft="50dp"
      android:hint="Phone number"
      android:textAlignment="center"

      />
<EditText
      android:id="@+id/dob"
      android:layout_width="300dp"
      android:layout_height="40dp"
      android:layout_marginTop="350dp"
      android:layout_marginLeft="50dp"
      android:hint="Date of birth"
      android:textAlignment="center"

      />
<EditText
      android:id="@+id/qual"
      android:layout_width="300dp"
      android:layout_height="40dp"
      android:layout_marginTop="400dp"
      android:layout_marginLeft="50dp"
      android:hint="Qualification"
      android:textAlignment="center"

      />
<EditText
      android:id="@+id/job"
      android:layout_width="300dp"
      android:layout_height="40dp"
      android:layout_marginTop="450dp"
      android:layout_marginLeft="50dp"
      android:hint="Job"
```

```xml
            android:textAlignment="center"

        />
    <Button
        android:id="@+id/btn"
        android:layout_width="300dp"
        android:layout_height="40dp"
        android:layout_marginTop="500dp"
        android:layout_marginLeft="50dp"
        android:text="Click"
        android:textAlignment="center"
        />

</RelativeLayout>
```

MainActivity.java:

```java
package com.example.myapp;

import android.content.Intent;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;

public class MainActivity extends AppCompatActivity {
    EditText name,age,gender,address,dob,qual,job;
    Button btn;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        name=(EditText) findViewById(R.id.name);
        age=(EditText) findViewById(R.id.age);
        gender=(EditText) findViewById(R.id.gender);
        address=(EditText) findViewById(R.id.address);
        dob=(EditText) findViewById(R.id.dob);
        qual=(EditText) findViewById(R.id.qual);
        job=(EditText) findViewById(R.id.job);
        btn=(Button) findViewById(R.id.btn);


    btn.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            String str1=name.getText().toString();
            String str2=age.getText().toString();
            String str3=gender.getText().toString();
            String str4=address.getText().toString();
```

```java
                String str5=dob.getText().toString();
                String str6=qual.getText().toString();
                String str7=job.getText().toString();
                Intent intent=new Intent(getApplicationContext(),SecondActivity.class);
                intent.putExtra("msg1",str1);
                intent.putExtra("msg2",str2);
                intent.putExtra("msg3",str3);
                intent.putExtra("msg4",str4);
                intent.putExtra("msg5",str5);
                intent.putExtra("msg6",str6);
                intent.putExtra("msg7",str7);
                startActivity(intent);



        }
    });

    }
}
```

activity_second.xml

```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"
    android:background="@color/colorAccent"
    tools:context=".SecondActivity">
    <TextView
        android:layout_width="80dp"
        android:layout_height="30dp"
        android:text="Name:"
        android:layout_marginLeft="50dp"
        android:layout_marginTop="50dp"/>
    <TextView
        android:id="@+id/name"
        android:layout_width="180dp"
        android:layout_height="30dp"
        android:text=""
        android:layout_marginLeft="150dp"
        android:layout_marginTop="50dp"/>

    <TextView
        android:layout_width="80dp"
        android:layout_height="30dp"
        android:text="Age:"
        android:layout_marginLeft="50dp"
        android:layout_marginTop="100dp"/>
```

```xml
<TextView
    android:id="@+id/age"
    android:layout_width="180dp"
    android:layout_height="30dp"
    android:text=""
    android:layout_marginLeft="150dp"
    android:layout_marginTop="100dp"/>

<TextView
    android:layout_width="80dp"
    android:layout_height="30dp"
    android:text="Gender:"
    android:layout_marginLeft="50dp"
    android:layout_marginTop="150dp"/>
<TextView
    android:id="@+id/gender"
    android:layout_width="180dp"
    android:layout_height="30dp"
    android:text=""
    android:layout_marginLeft="150dp"
    android:layout_marginTop="150dp"/>

<TextView
    android:layout_width="80dp"
    android:layout_height="30dp"
    android:text="Address:"
    android:layout_marginLeft="50dp"
    android:layout_marginTop="200dp"/>
<TextView
    android:id="@+id/address"
    android:layout_width="180dp"
    android:layout_height="30dp"
    android:text=""
    android:layout_marginLeft="150dp"
    android:layout_marginTop="200dp"/>
<TextView
    android:layout_width="80dp"
    android:layout_height="30dp"
    android:text="DOB:"
    android:layout_marginLeft="50dp"
    android:layout_marginTop="250dp"/>
<TextView
    android:id="@+id/dob"
    android:layout_width="180dp"
    android:layout_height="30dp"
    android:text=""
    android:layout_marginLeft="150dp"
    android:layout_marginTop="250dp"/>

<TextView
    android:layout_width="80dp"
    android:layout_height="30dp"
```

```xml
        android:text="Qualification:"
        android:layout_marginLeft="50dp"
        android:layout_marginTop="300dp"/>
    <TextView
        android:id="@+id/qual"
        android:layout_width="180dp"
        android:layout_height="30dp"
        android:text=""
        android:layout_marginLeft="150dp"
        android:layout_marginTop="300dp"/>
    <TextView
        android:layout_width="80dp"
        android:layout_height="30dp"
        android:text="Name:"
        android:layout_marginLeft="50dp"
        android:layout_marginTop="350dp"/>
    <TextView
        android:id="@+id/job"
        android:layout_width="180dp"
        android:layout_height="30dp"
        android:text=""
        android:layout_marginLeft="150dp"
        android:layout_marginTop="350dp"/>

</RelativeLayout>
```

SecondActivity.java

```java
package com.example.myapp;

import android.app.Activity;
import android.content.Intent;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.widget.EditText;
import android.widget.TextView;


public class SecondActivity extends Activity {
    TextView name,age,gender,address,dob,qual,job;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_second);
        name=(TextView) findViewById(R.id.name);
        age=(TextView) findViewById(R.id.age);
        gender=(TextView) findViewById(R.id.gender);
        address=(TextView) findViewById(R.id.address);
        dob=(TextView) findViewById(R.id.dob);
        qual=(TextView) findViewById(R.id.qual);
```

```
        job=(TextView) findViewById(R.id.job);
        Intent intent=getIntent();
        String str1=intent.getStringExtra("msg1");
        name.setText(str1);
        String str2=intent.getStringExtra("msg2");
        age.setText(str2);
        String str3=intent.getStringExtra("msg3");
        gender.setText(str3);
        String str4=intent.getStringExtra("msg4");
        address.setText(str4);
        String str5=intent.getStringExtra("msg5");
        dob.setText(str5);
        String str6=intent.getStringExtra("msg6");
        qual.setText(str6);
        String str7=intent.getStringExtra("msg7");
        job.setText(str7);
    }
}
```

Name:	Arunimamol cs
Age:	22
Gender:	female
Address:	cheruplackal
DOB:	20/08/1999
Qualification	MCA
Name:	student

EXPERIMENT NO:12
DATE:04/03/2022

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.

SOURCE CODE

activity_main.xml


```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"
  android:background="@color/purple_200"
  tools:context=".MainActivity">

<ListView
  android:id="@+id/list"
  android:layout_width="419dp"
  android:layout_height="731dp"
  tools:ignore="MissingConstraints" />


</RelativeLayout>
```

list_item.xml


```xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
  xmlns:tools="http://schemas.android.com/tools"
  android:background="@color/purple_200"
  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" />
</RelativeLayout>
```

```java
package com.example.cycle3;

import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Adapter;
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[] Dog_Breeds={"German Shepherd","Pomeranian","Dobermann","Pug","Boxer"};
    @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.list_item,R.id.textView, Dog_Breeds);


        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(getBaseContext(),"This is German
Shepherd",Toast.LENGTH_LONG).show();
                }
                if (position==1)
                {
                    Toast.makeText(getBaseContext(),"This is
```
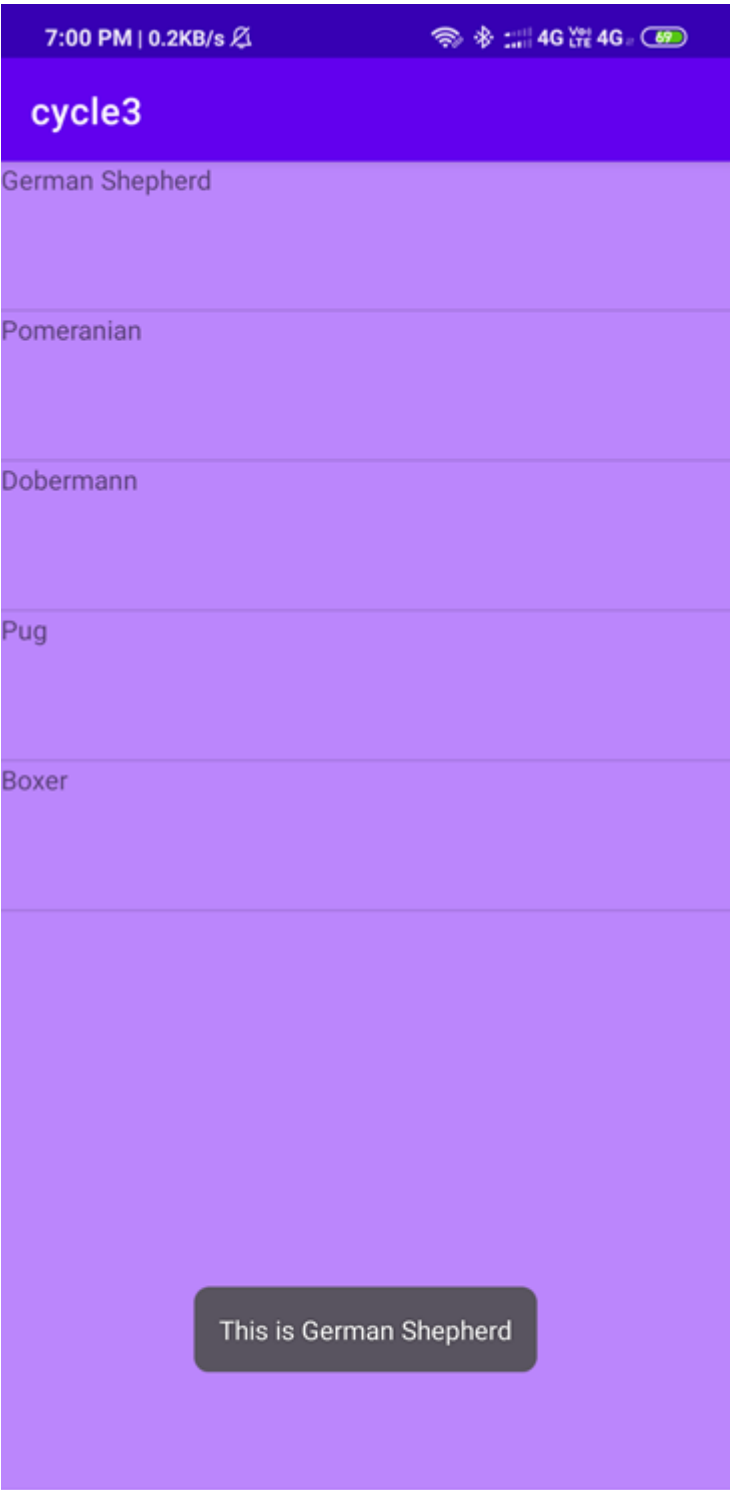
```java
Pomeranian",Toast.LENGTH_LONG).show();
        }
        if (position==2)
        {
            Toast.makeText(getBaseContext(),"This is
Dobermann",Toast.LENGTH_LONG).show();
        }
        if (position==3)
        {
            Toast.makeText(getBaseContext(),"This is Pug",Toast.LENGTH_LONG).show();
        }
        if (position==4)
        {
            Toast.makeText(getBaseContext(),"This is Boxer",Toast.LENGTH_LONG).show();
        }
        return true;
    }
    });
 }
}
```

EXPERIMENT NO:13
DATE:04/03/2022

AIM:

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

SOURCE CODE

activity_main.xml

```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"
  android:background="@color/purple_200"
  tools:context=".MainActivity3">
  <TextView
    android:id="@+id/textview"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="250dp"
    android:layout_marginLeft="80dp"
    android:textColor="@color/design_default_color_error"
    android:text="Long Press me"
    android:textStyle="bold"
    android:textSize="30dp"
    />
</RelativeLayout>
```

Menu_options.xml

```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="Settings"></item>
  <item android:id="@+id/item2" android:title="Downloads"></item>
  <item android:id="@+id/item3" android:title="Documents"></item>
</menu>
```
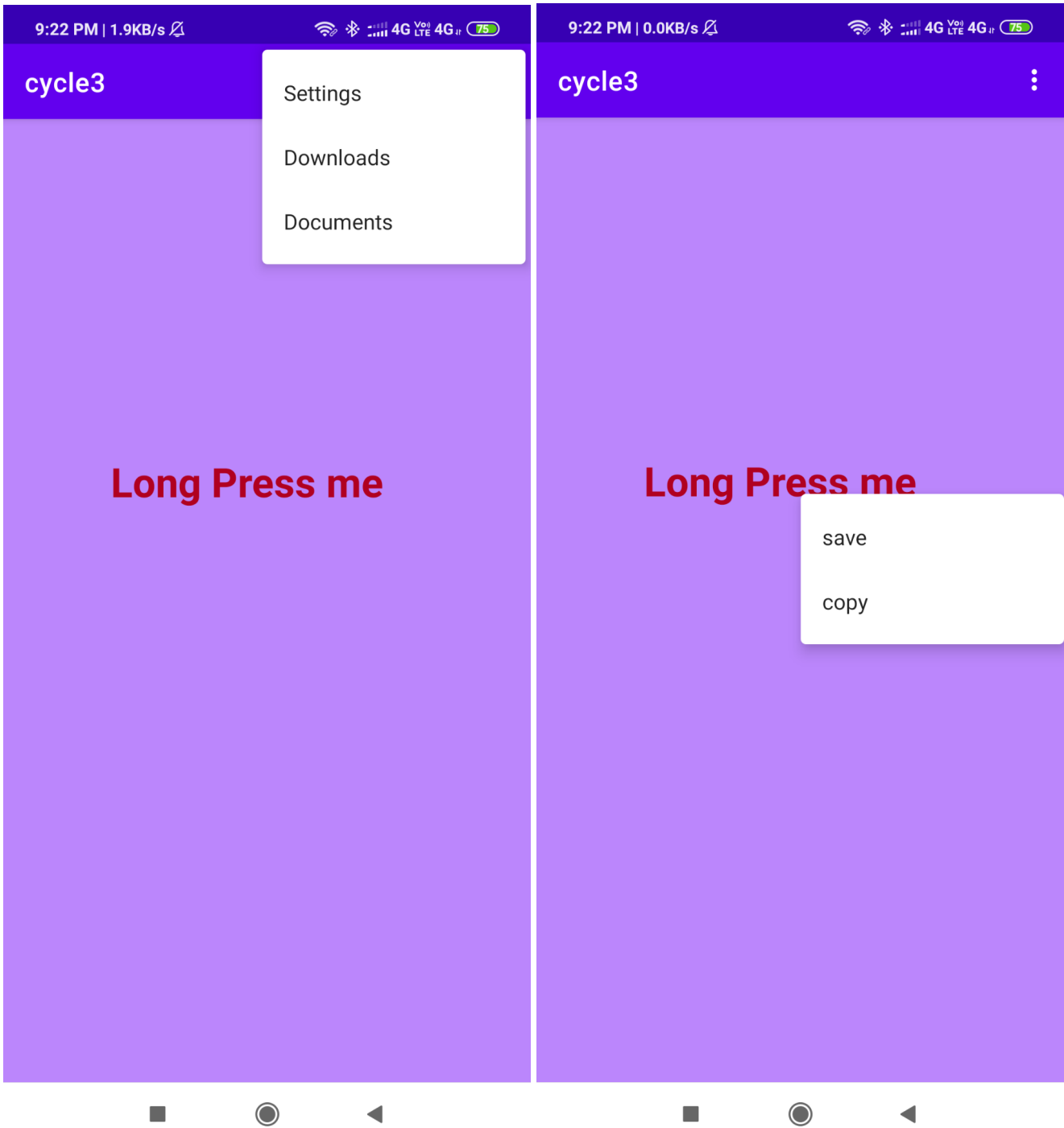
Menu_context.xml

```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>
```

```xml
    <item android:id="@+id/item2" android:title="copy"></item>
</menu>
```

MainActivity.java

```java
package com.example.cycle3;

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 MainActivity3 extends AppCompatActivity {
    TextView text;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main3);
        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);
    }
}
```

EXPERIMENT NO:14
DATE:04/03/2022

AIM:

Develop an android mobile application to implement alert dialogs.

SOURCE CODE

actvity_main.xml

```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"
    android:background="@color/design_default_color_secondary"
    tools:context=".MainActivity2">
    <Button
        android:id="@+id/button"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Alert"
        android:layout_marginTop="250dp"
        android:layout_marginLeft="150dp"
        />
</RelativeLayout>
```


MainActivity.java

```java
package com.example.cycle3;

import androidx.appcompat.app.AlertDialog;
import androidx.appcompat.app.AppCompatActivity;

import android.content.DialogInterface;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;


public class MainActivity2 extends AppCompatActivity {

    Button btn;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
```
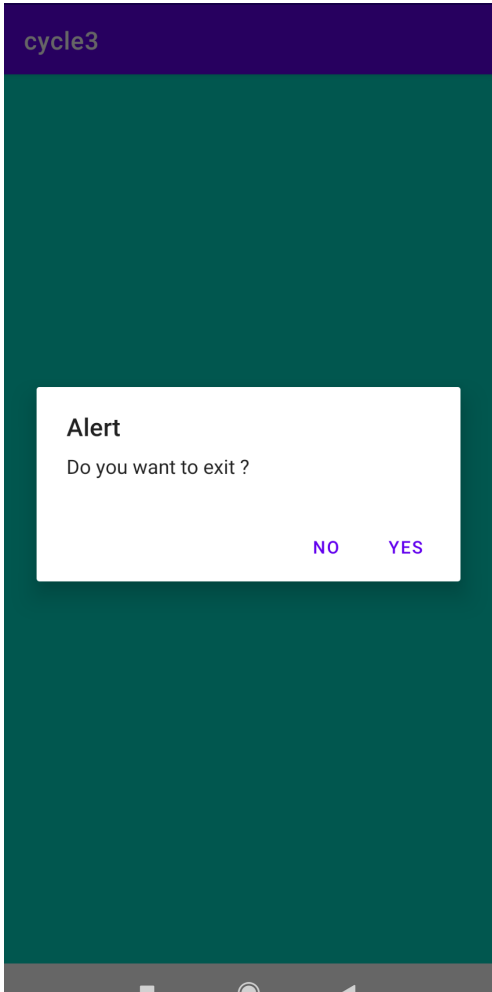
```java
    setContentView(R.layout.activity_main2);
    btn=(Button) findViewById(R.id.button);
    btn.setOnClickListener(new View.OnClickListener() {
      @Override
      public void onClick(View v) {
        AlertDialog.Builder builder = new AlertDialog.Builder(MainActivity2.this);

        builder.setMessage("Do you want to exit ?");
        builder.setTitle("Alert");
        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 dialog = builder.create();
        dialog.show();
      }
    });
    }
}
```

OUTPUT:

cycle3

Alert

Do you want to exit ?

NO   YES

EXPERIMENT NO:15
DATE:04/03/2022

AIM:

Develop an android mobile application to create an alarm clock.

SOURCE CODE

activity_main.xml

```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

```java
package com.example.cycle3;

import androidx.appcompat.app.AppCompatActivity; import android.media.Ringtone;
```

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```java
import android.media.RingtoneManager; import android.os.Bundle;
import android.widget.TextClock;
import android.widget.TimePicker;

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

    public class SecondActivity extends AppCompatActivity {
        TimePicker tp;

        TextClock tc;
        @Override
        protected void onCreate(Bundle savedInstanceState) {
            super.onCreate(savedInstanceState);
            setContentView(R.layout.activity_second);
            tp = findViewById(R.id.timepicker);
            tc = findViewById(R.id.textclock);
            Ringtone r= RingtoneManager.getRingtone(getApplicationContext(),
                RingtoneManager.getDefaultUri(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(stringAlarmMinutes).concat("PM");
        }else {


stringAlarmTime=alarmHours.toString().concat(":").concat(stringAlarmMinutes).concat("AM");
        }
        return stringAlarmTime;
    }
```

}

OUTPUT