

DatePicker

4. Creating an application with Date Picker Widget.

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:id="@+id/activity_main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:paddingLeft="16dp"
    android:paddingTop="16dp"
    android:paddingRight="16dp"
    android:paddingBottom="16dp"
    tools:context="tabian.com.datepickerdialog.MainActivity">

    <TextView
        android:id="@+id/tvDate"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:hint="Select Date"
        android:textSize="30sp"
        android:layout_marginTop="50dp"
```

```
android:layout_centerHorizontal="true"/>  
</RelativeLayout>
```

MainActivity.java:

```
package easytuto.com.ex3;  
  
import android.app.DatePickerDialog;  
  
import android.graphics.Color;  
  
import android.graphics.drawable.ColorDrawable;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
  
import android.util.Log;  
  
import android.view.View;  
  
import android.widget.DatePicker;  
  
import android.widget.TextView;  
  
import java.util.Calendar;  
  
public class MainActivity extends AppCompatActivity {  
  
    private static final String TAG= "MainActivity";  
  
    private TextView mDisplayDate;  
  
    private DatePickerDialog.OnDateSetListener mDateSetListener;  
  
    @Override  
  
    protected void onCreate(Bundle savedInstanceState) {  
  
        super.onCreate(savedInstanceState);  
  
        setContentView(R.layout.activity_main);  
  
        mDisplayDate=(TextView)findViewById(R.id.tvDate);  
  
        mDisplayDate.setOnClickListener(new View.OnClickListener() {
```

```

@Override

public void onClick(View view) {

    Calendar cal=Calendar.getInstance();

    int year=cal.get(Calendar.YEAR);

    int month=cal.get(Calendar.MONTH);

    int day=cal.get(Calendar.DAY_OF_MONTH);

    DatePickerDialog dialog=new DatePickerDialog(

    MainActivity.this,

    android.R.style.Theme_Holo_Light_Dialog_MinWidth,

    mDateSetListener,

    year,month,day);

    dialog.getWindow().setBackgroundDrawable(new ColorDrawable(Color.TRANSPARENT));

    dialog.show();

    }

});

mDateSetListener=new DatePickerDialog.OnDateSetListener() {

    @Override

    public void onDateSet(DatePickerdatePicker, int year, int month, int day) {

    month=month+1;

    Log.d(TAG,"anDataset: mm/dd/yyyy:"+month+"/"+day+"/"+year);

    String date=+month+"/"+day+"/"+year;

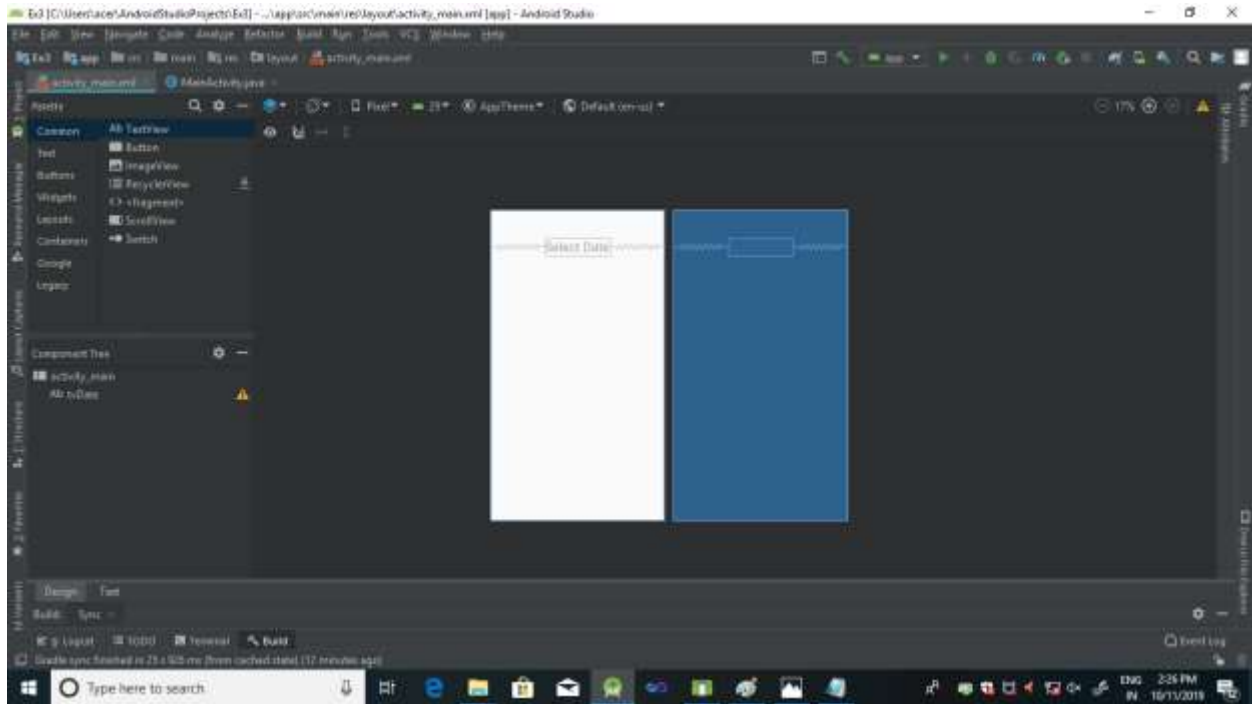
    mDisplayDate.setText(date);

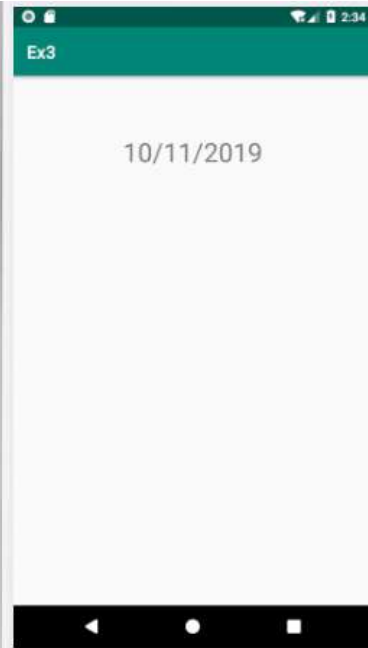
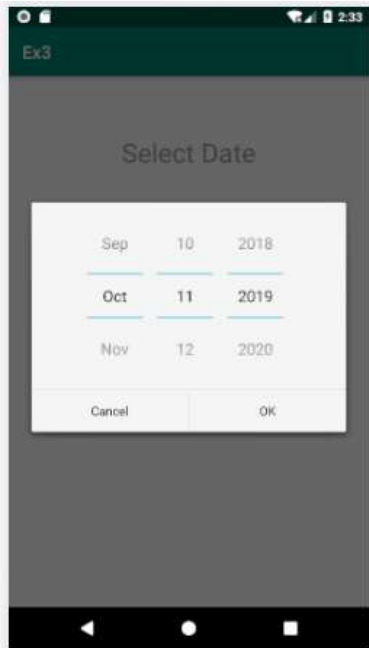
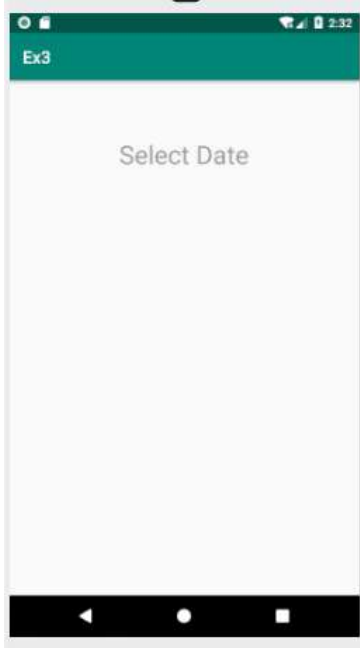
    }

```

```
};  
}}
```

Output:





DIALOG BOX

3. Creating an application with Alert Dialog box.

Activity Main.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayoutxmlns: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:paddingBottom="16dp"
android:paddingLeft="16dp"
android:paddingRight="16dp"
android:paddingTop="16dp"
tools:context=".MainActivity">
<Button
android:id="@+id/btnName"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="show"
android:layout_alignBottom="@+id/txtName"
android:layout_alignParentRight="true"
android:layout_alignParentEnd="true"/>
```

```
<Button
    android:id="@+id/btnAcc"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="show"
    android:layout_alignBottom="@+id/txtAcc"
    android:layout_alignLeft="@+id/txtName"
    android:layout_alignStart="@+id/btnName"/>
```

```
<Button
    android:id="@+id/btnBal"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="show"
    android:layout_alignBottom="@+id/txtBal"
    android:layout_alignParentRight="true"
    android:layout_alignParentEnd="true" />
```

```
<TextView
    android:id="@+id/txtName"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Name :"
```

```
android:layout_marginBottom="71dp"
android:layout_above="@+id/btnAcc"
android:layout_alignParentLeft="true"
android:layout_alignParentStart="true"/>
```

```
<TextView
```

```
android:id="@+id/txtAcc"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="AccNO : "
android:layout_marginBottom="88dp"
android:layout_above="@+id/btnBal"
android:layout_alignParentLeft="true"
android:layout_alignParentStart="true" />
```

```
<TextView
```

```
android:id="@+id/txtBal"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="Balance"
android:layout_marginBottom="144dp"
android:layout_alignParentBottom="true"
android:layout_alignParentLeft="true"
android:layout_alignParentStart="true" />
```


</RelativeLayout>

MainActivity.java:

```
package easytuto.com.ex5;

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;
import android.widget.TextView;
import org.w3c.dom.Text;

public class MainActivity extends AppCompatActivity {
    TextView txtName,txtAcc,txtBal;
    Button btnName,btnAcc,btnBal;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        txtName=(TextView) findViewById(R.id.txtName);
        txtAcc=(TextView) findViewById(R.id.txtAcc);
        txtBal=(TextView) findViewById(R.id.txtBal);
```

```

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

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

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

btnName.setOnClickListener(new View.OnClickListener() {

    @Override

    public void onClick(View view) {

txtName.setText("Hari");

    }

});

btnAcc.setOnClickListener(new View.OnClickListener() {

    @Override

    public void onClick(View view) {

txtAcc.setText("1234567890");    }

});

btnBal.setOnClickListener(new View.OnClickListener() {

    @Override

    public void onClick(View view) {

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

builder.setMessage("Are you sure?").setPositiveButton("OK", new

DialogInterface.OnClickListener() {

    @Override

    public void onClick(DialogInterface dialogInterface, int i) {

txtBal.setText("1000");

    }

```

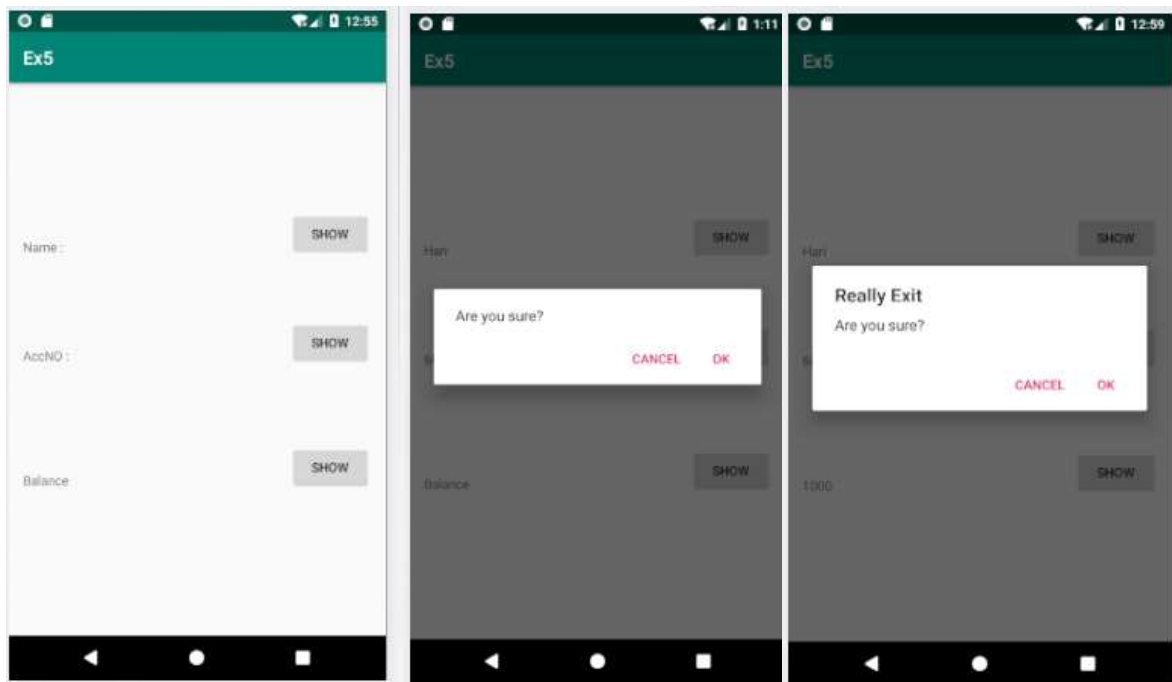
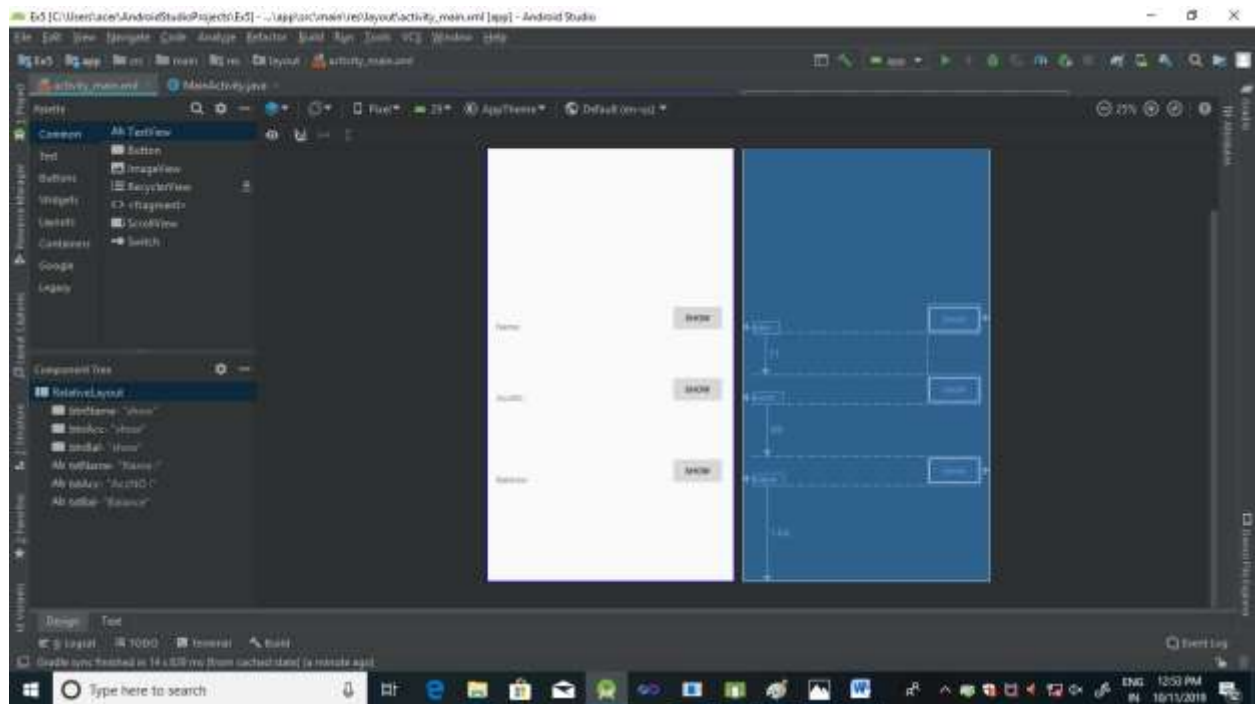
```

        }).setNegativeButton("Cancel",null);
AlertDialog alert=builder.create();
alert.show();
    }
    });
}
@Override
public void onBackPressed()
{
AlertDialog.Builder builder=new AlertDialog.Builder(MainActivity.this);
builder.setTitle("Really Exit")
        .setMessage("Are you sure?").setPositiveButton("OK", new
DialogInterface.OnClickListener() {
    @Override
public void onClick(DialogInterfacedialogInterface, int i) {
MainActivity.super.onBackPressed();
    }
        }).setNegativeButton("Cancel",null);

AlertDialog alert=builder.create();
alert.show();
    }
}

```

Output:



File

8. Creating an application with File I/O.

Activity Main.Xml :

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:id="@+id/RelativeLayout1"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent"
    android:orientation="vertical" >
```

```
<EditText
    android:id="@+id/editText1"
    android:layout_width="128dp"
    android:layout_height="wrap_content"
    android:layout_alignParentTop="true"
    android:layout_centerHorizontal="true"
    android:ems="10" />
```

```
<TextView
    android:id="@+id/textView1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignBaseline="@+id/editText1"
    android:layout_alignBottom="@+id/editText1"
    android:layout_alignParentLeft="true"
    android:layout_marginLeft="20dp"
    android:text="Reg. No." />
<requestFocus />
```

```
<TextView
    android:id="@+id/textView2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignLeft="@+id/textView1"
    android:layout_below="@+id/editText1"
```

```
android:layout_marginTop="23dp"  
android:text="Name" />
```

```
<EditText  
android:id="@+id/editText2"  
android:layout_width="wrap_content"  
android:layout_height="wrap_content"  
android:layout_alignBaseline="@+id/textView2"  
android:layout_alignBottom="@+id/textView2"  
android:layout_alignLeft="@+id/editText1"  
android:layout_alignRight="@+id/editText1"  
android:ems="10" >  
</EditText>
```

```
<EditText  
android:id="@+id/editText3"  
android:layout_width="wrap_content"  
android:layout_height="wrap_content"  
android:layout_alignLeft="@+id/editText2"  
android:layout_alignRight="@+id/editText2"  
android:layout_below="@+id/editText2"  
android:layout_marginTop="33dp"  
android:ems="10" />
```

```
<TextView  
android:id="@+id/textView3"  
android:layout_width="wrap_content"  
android:layout_height="wrap_content"  
android:layout_alignBaseline="@+id/editText3"  
android:layout_alignBottom="@+id/editText3"  
android:layout_alignRight="@+id/textView2"  
android:text="%age" />
```

```
<Button  
android:id="@+id/button1"  
android:layout_width="wrap_content"  
android:layout_height="wrap_content"  
android:layout_alignParentLeft="true"
```

```
android:layout_below="@+id/editText3"
android:layout_marginTop="34dp"
android:layout_toLeftOf="@+id/editText3"
android:text="Save" />
```

```
<Button
android:id="@+id/button3"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignParentLeft="true"
android:layout_alignRight="@+id/button1"
android:layout_below="@+id/button1"
android:layout_marginTop="19dp"
android:text="Clear" />
```

```
<Button
android:id="@+id/button2"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_above="@+id/button3"
android:layout_alignParentRight="true"
android:layout_toRightOf="@+id/editText3"
android:text="Retrieve" />
```

```
<Button
android:id="@+id/button4"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_alignBaseline="@+id/button3"
android:layout_alignBottom="@+id/button3"
android:layout_alignLeft="@+id/button2"
android:layout_alignParentRight="true"
android:text="Exit" />
</RelativeLayout>
```

StuMarkActivity.java :

```
package com.example;
import java.io.BufferedReader;
import java.io.File;
import java.io.FileInputStream;
import java.io.FileOutputStream;
import java.io.IOException;
import java.io.InputStreamReader;
import java.io.OutputStreamWriter;
import android.app.Activity;
import android.os.Bundle;
import android.view.View;
import android.view.View.OnClickListener;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;

public class StuMarkActivity extends Activity {
    /** Called when the activity is first created. */
    EditText regno, name, per;
    Button sav, clr, ret, ext;

    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.main);
        regno = (EditText) findViewById(R.id.editText1);
        name = (EditText) findViewById(R.id.editText2);
        per = (EditText) findViewById(R.id.editText3);
        sav = (Button) findViewById(R.id.button1);
        clr = (Button) findViewById(R.id.button3);
        ret = (Button) findViewById(R.id.button2);
        ext = (Button) findViewById(R.id.button4);
        sav.setOnClickListener(new OnClickListener(){
            public void onClick(View v)
            {
                try {
```



```

        File inf = new File ("/sdcard/stu2.txt");
        inf.createNewFile();
        FileOutputStreamfos = new FileOutputStream(inf);
OutputStreamWriters = new OutputStreamWriter(fos);
        os.append(regno.getText());
        os.append("\n");
        os.append(name.getText());
        os.append("\n");
        os.append(per.getText());
        os.close();
        fos.close();
Toast.makeText(getApplicationContext(), "Saved..", 2000).show();
        } catch (IOException e) {
            e.printStackTrace();
        }
    }
});

clr.setOnClickListener(new OnClickListener()
{
    public void onClick(View v)
    {
        regno.setText("");
        name.setText("");
        per.setText("");
        Toast.makeText(getApplicationContext(), "Cleared..", 2000).show();
    }
});

ret.setOnClickListener(new OnClickListener(){
    public void onClick(View v) {
        try {
            File inf = new File ("/sdcard/stu2.txt");
            FileInputStreamfos = new FileInputStream(inf);
            BufferedReaderrd = new BufferedReader(new
InputStreamReader(fos));

            String txt;
            txt = rd.readLine();
            regno.setText(txt);

```

```
txt = rd.readLine();
name.setText(txt);
txt = rd.readLine();
per.setText(txt);
rd.close();
fos.close();
```

```
Toast.makeText(getApplicationContext(), "Got it..", 2000).show();
    } catch (Exception e)
{
    e.printStackTrace();
}
});
ext.setOnClickListener(new OnClickListener(){
    public void onClick(View v)
    {
        finish();
    }
});
}
```

Include the permission in AndroidManifest.xml :

```
<uses-permissionandroid:name="android.permission.WRITE_EXTERNAL_STORAGE"/>
```

Menu and Intents

7. Creating an application with Menus and Intents.

MenuActivity.java

```
packagecom.example;
importandroid.app.Activity;
importandroid.content.Intent;
importandroid.os.Bundle;
importandroid.view.Menu;
importandroid.view.MenuItem;
importandroid.widget.Toast;

public class MenuActivity extends Activity
{
    private static final int MENU_ITEM_1 = Menu.FIRST + 1;
    private static final int MENU_ITEM_2 = Menu.FIRST + 2;
    private static final int MENU_ITEM_3 = Menu.FIRST + 3;
    Toast msg;
    /** Called when the activity is first created. */
    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.main);
    }
    @Override
    publicbooleanonCreateOptionsMenu (Menu menu)
    {
        menu.add(Menu.NONE,
MENU_ITEM_1,Menu.NONE,"First").setIcon(R.drawable.ic_launcher);
        menu.add(Menu.NONE, MENU_ITEM_2,Menu.NONE,"Second
        ").setIcon(R.drawable.ic_launcher);
        menu.add(Menu.NONE,
MENU_ITEM_3,Menu.NONE,"Close").setIcon(R.drawable.ic_launcher);
        return (super.onCreateOptionsMenu(menu));
    }
}
```

```

@Override
public boolean onOptionsItemSelected(MenuItem item)
{
    switch (item.getItemId())
    {
        case MENU_ITEM_1:
            startActivity(new Intent(this,First.class));
            return true;
        case MENU_ITEM_2:
            startActivity(new Intent(this,Second.class));
            return true;
        case MENU_ITEM_3:
            finish();
    }
    return (super.onOptionsItemSelected(item));
}
}

```

First.java:

```

package com.example;
import android.app.Activity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;

public class First extends Activity {
    Button b;
    public void onCreate(Bundle savedInstanceState){
        super.onCreate(savedInstanceState);
        setContentView(R.layout.first);
        b = (Button)findViewById(R.id.but1);
        b.setOnClickListener(new View.OnClickListener() {
            public void onClick(View arg0) {
                finish();
            }
        });
    }
}

```

```
}  
}
```

Second.java:

```
package com.example;  
import android.app.Activity;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;
```

```
public class Second extends Activity {  
    Button b;  
    public void onCreate(Bundle savedInstanceState){  
        super.onCreate(savedInstanceState);  
        setContentView(R.layout.second);  
        b = (Button)findViewById(R.id.but2);  
        b.setOnClickListener(new View.OnClickListener() {  
            public void onClick(View arg0) {  
                finish();  
            }  
        });  
    }  
}
```

first.xml:

```
<?xml version="1.0" encoding="utf-8"?>  
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
    android:layout_width="match_parent"  
    android:layout_height="match_parent"  
    android:orientation="vertical">  
    <TextView  
        android:layout_width="match_parent"  
        android:layout_height="wrap_content"  
        android:text="YOU ARE IN FIRST MENU OPTION"  
    />  
    <Button  
        android:id="@+id/but1"  
        android:layout_width="match_parent"  
        android:layout_height="wrap_content"
```

```
android:text="Go Back to Main menu"  
/>  
</LinearLayout>
```

second.xml:

```
<?xmlversion="1.0"encoding="utf-8"?>  
<LinearLayoutxmlns:android="http://schemas.android.com/apk/res/android"  
android:layout_width="match_parent"  
android:layout_height="match_parent"  
android:orientation="vertical">  
<TextView  
android:layout_width="match_parent"  
android:layout_height="wrap_content"  
android:text="YOU ARE IN SECOND MENU OPTION"  
/>  
<Button  
android:id="@+id/but2"  
android:layout_width="match_parent"  
android:layout_height="wrap_content"  
android:text="Go Back to Main menu"  
/>  
</LinearLayout>
```

Add the following two lines in AndroidManifest.xml :

```
<activity android:name=".first"  
    android:label="First Menu Screen"></activity>  
<activity android:name=".second"  
    android:label="Second Menu Screen"></activity>  
</application>
```

PROGRESS BAR

5. Creating an application which creates Progress Bar.

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:layout_marginStart="55dp"

android:layout_marginLeft="55dp"

android:layout_marginTop="64dp"

android:layout_marginEnd="83dp"

android:layout_marginRight="83dp"

android:layout_marginBottom="619dp"

android:text="Start"

app:layout_constraintBottom_toBottomOf="parent"

app:layout_constraintEnd_toStartOf="@+id/button2"
```

```
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
<Button
android:id="@+id/button2"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginStart="83dp"
android:layout_marginLeft="83dp"
android:layout_marginTop="40dp"
android:layout_marginEnd="55dp"
android:layout_marginRight="55dp"
android:layout_marginBottom="200dp"
android:text="Stop"
app:layout_constraintBottom_toTopOf="@+id/progressBar"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toEndOf="@+id/button"
app:layout_constraintTop_toTopOf="parent" />
```

```
<ProgressBar
android:id="@+id/progressBar"
style="?android:attr/progressBarStyle"
android:layout_width="222dp"
android:layout_height="157dp"
android:layout_marginStart="100dp"
```



```
android:layout_marginLeft="100dp"
android:layout_marginTop="200dp"
android:layout_marginEnd="100dp"
android:layout_marginRight="100dp"
android:layout_marginBottom="200dp"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/button"
android:visibility="invisible"/>
</androidx.constraintlayout.widget.ConstraintLayout>
```

MainActivity.java:

```
package easytuto.com.ex6;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.ProgressBar;

public class MainActivity extends AppCompatActivity {

    Button Start;

    Button Stop;

    ProgressBar progressBar;
```

```
@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity_main);

    Start=(Button)findViewById(R.id.button);

    Stop=(Button)findViewById(R.id.button2);

progressBar=(ProgressBar)findViewById(R.id.progressBar);

Start.setOnClickListener(new View.OnClickListener() {

    @Override

public void onClick(View view) {

progressBar.setVisibility(View.VISIBLE);

    }

});

Stop.setOnClickListener(new View.OnClickListener() {

    @Override

public void onClick(View view) {

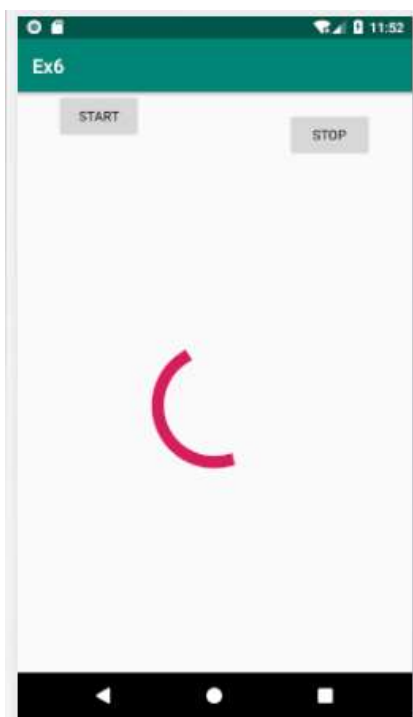
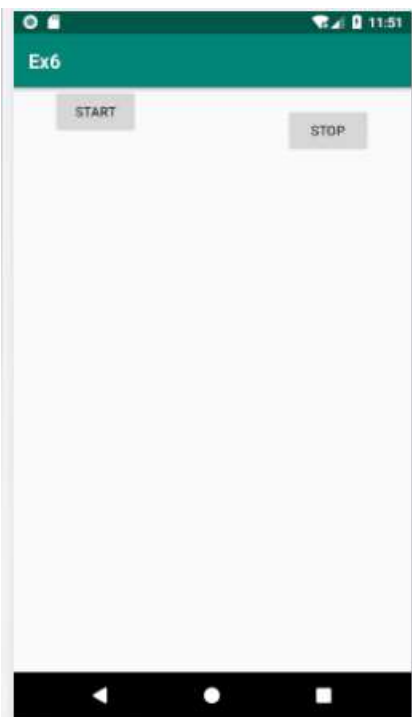
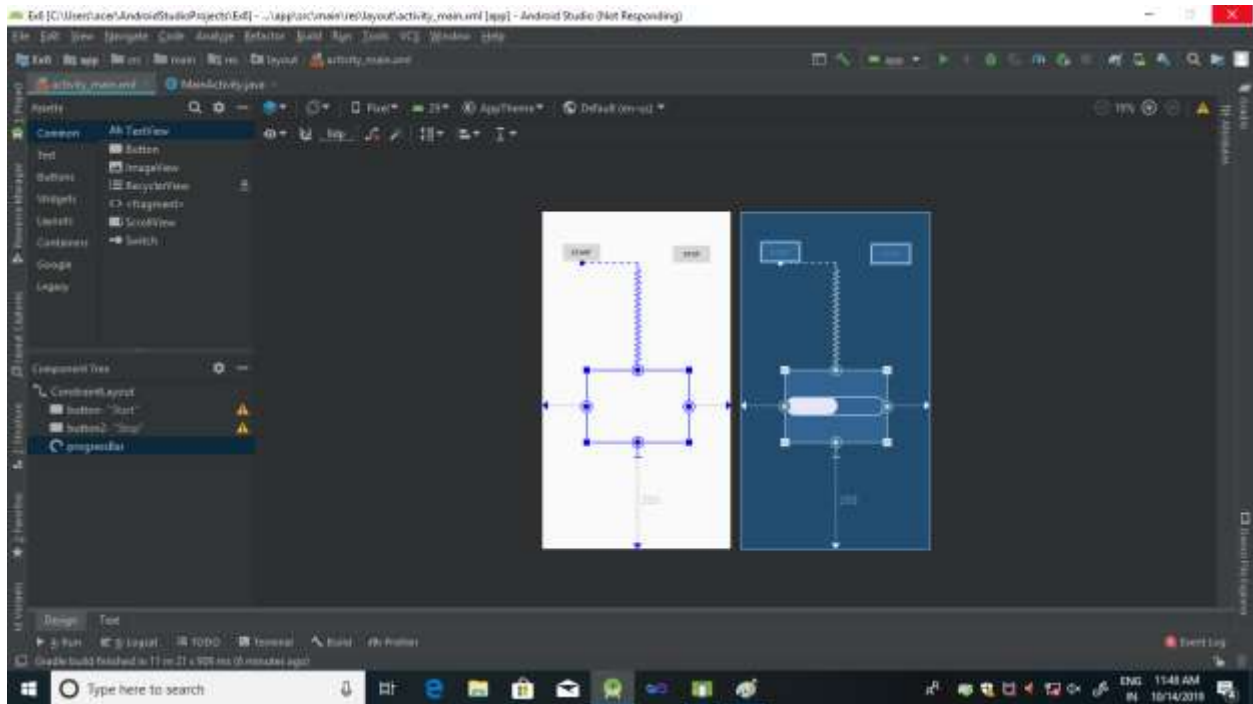
progressBar.setVisibility(View.INVISIBLE);

    }

});

}
```

Output:



RADIO BUTTON

2. Creating an application which uses Radio buttons & Option Group.

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">

    <RadioGroup
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_centerInParent="true"
        android:id="@+id/radioGroup">

        <RadioButton
            android:id="@+id/radio_one"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="One"
            android:onClick="checkButton"
            android:checked="true" />

        <RadioButton
```

```
android:id="@+id/radio_two"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="Two"
android:onClick="checkButton"    />
<RadioButton
android:id="@+id/radio_three"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="Three"
android:onClick="checkButton"    />
</RadioGroup>
<TextView
android:id="@+id/text_View_selected"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:textSize="20sp"
android:text="Your Selection"
android:layout_below="@+id/radioGroup"
android:layout_centerHorizontal="true"/>
<Button
android:id="@+id/button_apply"
android:layout_width="wrap_content"
```

```
android:layout_height="wrap_content"
android:text="Apply"
android:layout_below="@+id/text_View_selected"
android:layout_centerHorizontal="true"
android:layout_marginTop="37dp"/>
</RelativeLayout>
```

MainActivity.java:

```
package easytuto.com.ex2;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.RadioButton;

import android.widget.RadioGroup;

import android.widget.TextView;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

    RadioGroup radioGroup;

    RadioButton radioButton;

    TextView textView;

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);
```

```
setContentView(R.layout.activity_main);

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

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

    Button buttonApply=(Button)findViewById((R.id.button_apply));

buttonApply.setOnClickListener(new View.OnClickListener()

    {

        @Override

public void onClick(View v){

inradioid=radioGroup.getCheckedRadioButtonId();

radioButton=(RadioButton)findViewById(radioid);

textView.setText("Your choice:"+radioButton.getText());

        }

    });

}

public void checkButton(View v)

    {

inradioid=radioGroup.getCheckedRadioButtonId();

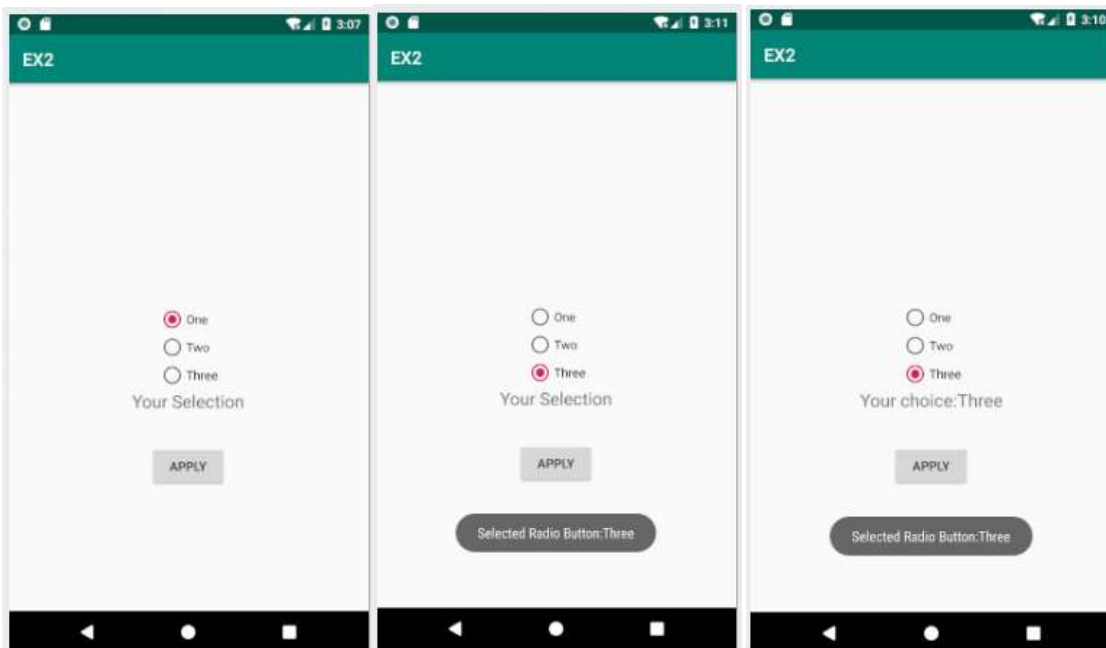
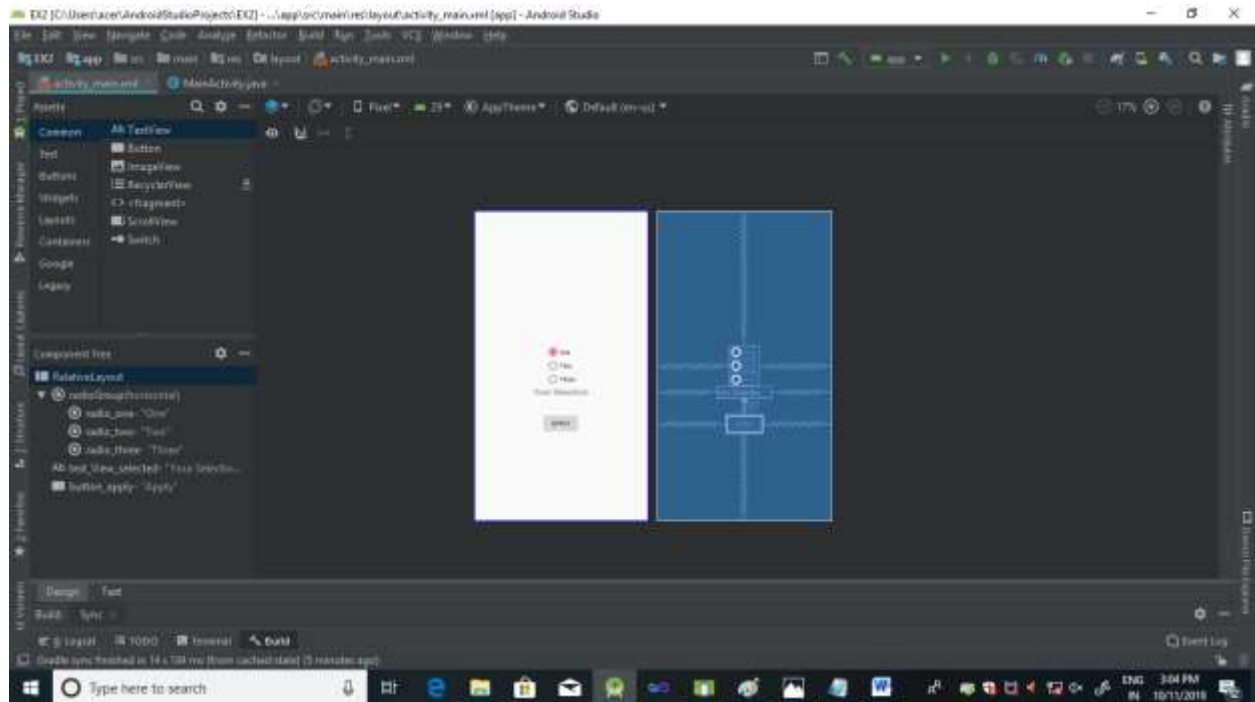
radioButton=(RadioButton)findViewById(radioid);

Toast.makeText(this,"Selected Radio
Button:"+radioButton.getText(),Toast.LENGTH_SHORT).show();

    }

}
```

Output:



SPINNER

6. Creating an application with Spinner.

Activity Mani.xml:

```
<?xml version="1.0" encoding="utf-8"?>

<RelativeLayoutxmlns: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">

<Spinner

android:id="@+id/spinner1"

android:layout_width="match_parent"

android:layout_height="147dp"

app:layout_constraintBottom_toBottomOf="parent"

app:layout_constraintLeft_toLeftOf="parent"

app:layout_constraintRight_toRightOf="parent"

app:layout_constraintTop_toTopOf="parent" />

</RelativeLayout>

package easytuto.com.ex4;

importandroidx.appcompat.app.AppCompatActivity;

importandroid.os.Bundle;

importandroid.view.View;
```

```

import android.widget.AdapterView;

import android.widget.ArrayAdapter;

import android.widget.Spinner;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity implements
AdapterView.OnItemClickListener {

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

        Spinner spinner=findViewById(R.id.spinner1);

        ArrayAdapter<CharSequence>
adapter=ArrayAdapter.createFromResource(this,R.array.Numbers,android.R.layout.simple_spinner_item);

        adapter.setDropDownViewResource(android.R.layout.simple_dropdown_item_1line);

        spinner.setAdapter(adapter);

        spinner.setOnItemClickListener(this);

    }

    @Override

    public void onItemClick(AdapterView<?> parent, View view, int position, long l) {

        String text=parent.getItemAtPosition(position).toString();

        Toast.makeText(parent.getContext(),text,Toast.LENGTH_SHORT).show();

    }

    @Override

    public void onNothingSelected(AdapterView<?>adapterView) {

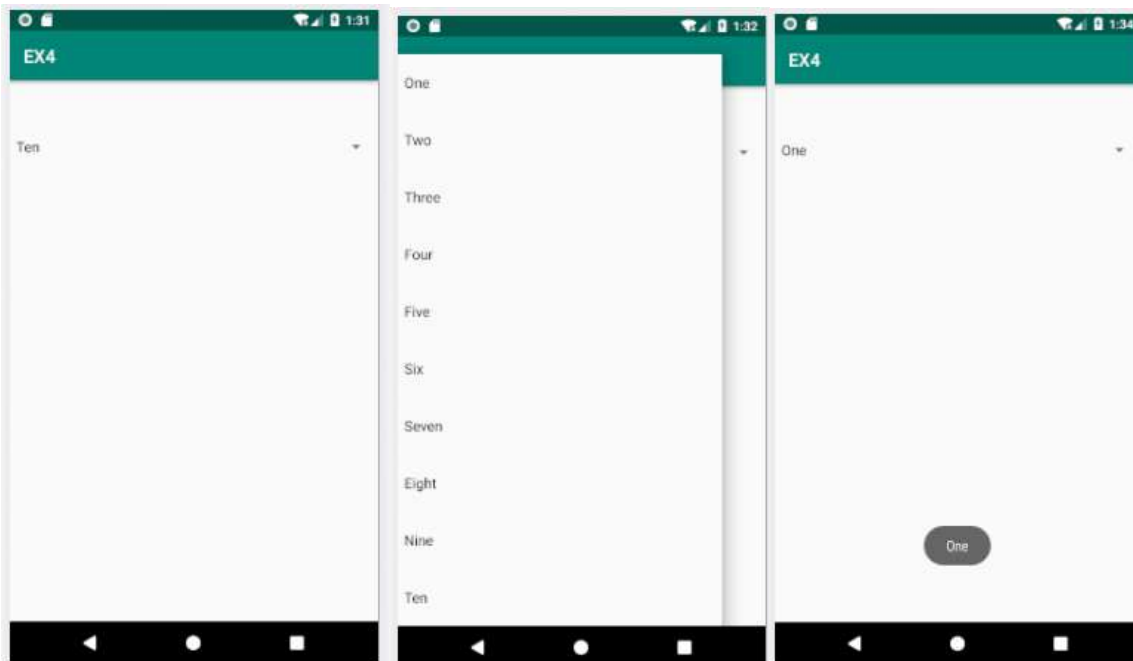
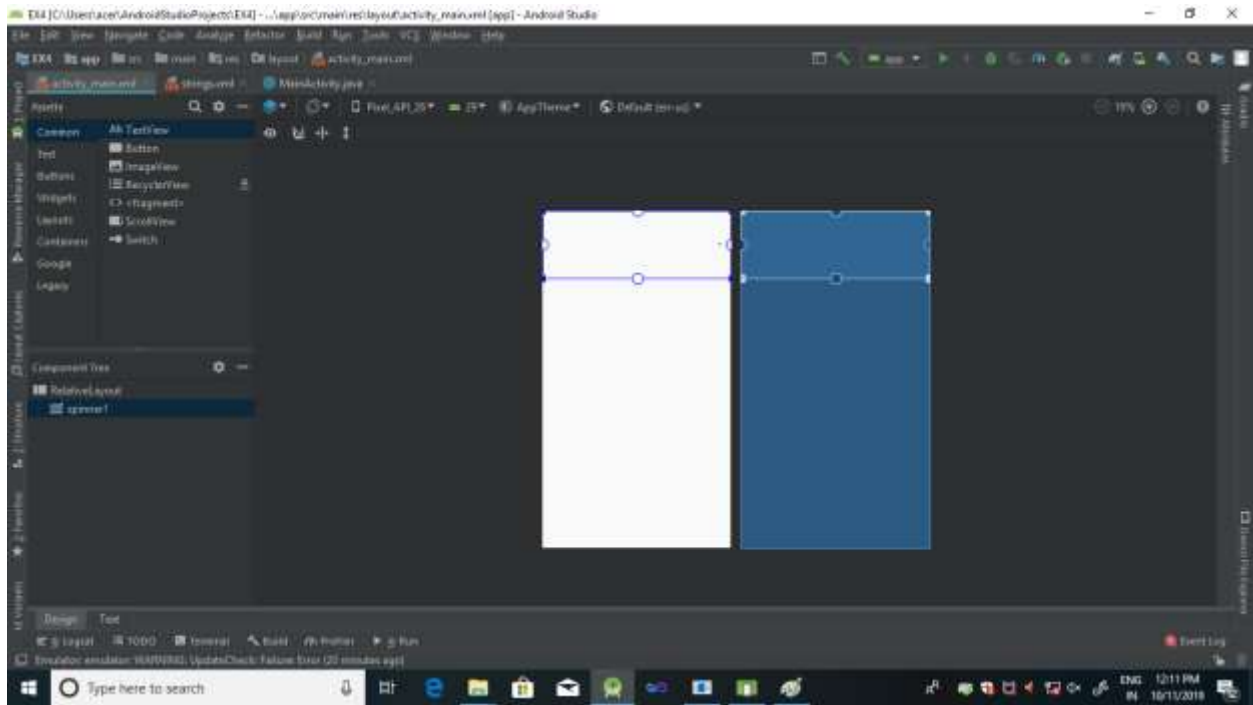
```

```
}  
}
```

Strings.xml:

```
<resources>  
  
<string name="app_name">EX4</string>  
  
<string-array name="Numbers">  
  
<item>One</item>  
  
<item>Two</item>  
  
<item>Three</item>  
  
<item>Four</item>  
  
<item>Five</item>  
  
<item>Six</item>  
  
<item>Seven</item>  
  
<item>Eight</item>  
  
<item>Nine</item>  
  
<item>Ten</item>  
  
</string-array>  
  
</resources>
```

Output:



TEXT VIEW AND EDIT TEXT

1. Creation of simple application using Button, Text View and Edit Text.

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/mytext"

android:layout_width="68dp"

android:layout_height="44dp"

android:layout_marginStart="8dp"

android:layout_marginLeft="8dp"

android:layout_marginTop="8dp"

android:layout_marginEnd="8dp"

android:layout_marginRight="8dp"

android:layout_marginBottom="8dp"

android:text="TextView"

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="0.302" />
```

```
<Button
    android:id="@+id/mybutton"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="8dp"
    android:layout_marginLeft="8dp"
    android:layout_marginTop="8dp"
    android:layout_marginEnd="8dp"
    android:layout_marginRight="8dp"
    android:layout_marginBottom="8dp"
    android:text="Button"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.498"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/mytext"
    app:layout_constraintVertical_bias="0.459" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

MainActivity.java:

```
packageeasytuto.com.textandbutton;

importandroidx.appcompat.app.AppCompatActivity;

importandroid.os.Bundle;

importandroid.view.View;

importandroid.widget.Button;

importandroid.widget.TextView;

public class MainActivity extends AppCompatActivity {

    TextView txt;

    Button btn;

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

        txt =(TextView) findViewById(R.id.mytext);

        btn = (Button)findViewById(R.id.mybutton);

        btn.setOnClickListener(new View.OnClickListener(){

            public void onClick(View v)

                {

                    txt.setText("Button Clicked");

                }

        });

    }

}
```

}

Output:

