

Name: Muhammad Huzaifa Shahid

Roll no: 103

## Chapter 7:

### Java classes:

DateTimePickerDialog.java

```
package com.example.chapter7;
```

```
import androidx.appcompat.app.AppCompatActivity;
```

```
import android.app.DatePickerDialog;
```

```
import android.app.DatePickerDialog.OnDateSetListener;
```

```
import android.app.TimePickerDialog;
```

```
import android.os.Bundle;
```

```
import android.view.View;
```

```
import android.widget.Button;
```

```
import android.widget.DatePicker;
```

```
import android.widget.TextView;
```

```
import android.widget.TimePicker;
```

```
import java.text.DateFormat;
```

```
import java.util.Calendar;
```

```
public class DateTimePickerDialog extends AppCompatActivity {
```

```
    DateFormat fmtDateAndTime= DateFormat.getDateTimeInstance();
```

```
    TextView lblDateAndTime;
```

```
    Calendar myCalendar= Calendar.getInstance();
```

```
    DatePickerDialog.OnDateSetListener d = new OnDateSetListener() {
```

```
        @Override
```

```
        public void onDateSet(DatePicker datePicker, int i, int i1, int i2) {
```

```
            myCalendar.set(Calendar.YEAR, i);
```

```
            myCalendar.set(Calendar.MONTH, i1);
```

```

myCalendar.set(Calendar.DAY_OF_MONTH, i2);
updateLabel();
}
};

TimePickerDialog.OnTimeSetListener t = new TimePickerDialog.OnTimeSetListener() {
@Override

public void onTimeSet(TimePicker timePicker, int i, int i1) {
myCalendar.set(Calendar.HOUR_OF_DAY, i);
myCalendar.set(Calendar.MINUTE, i1);
updateLabel();
}
};

@Override

protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_datetimepickerdialog);
lblDateAndTime= (TextView) findViewById(R.id.lblDateAndTime);
Button btnDate= (Button) findViewById(R.id.btnDate);
btnDate.setOnClickListener(new View.OnClickListener() {
public void onClick(View v) {
new DatePickerDialog(DateTimePickerDialog.this, d,
myCalendar.get(Calendar.YEAR), myCalendar.get(Calendar.MONTH),
myCalendar.get(Calendar.DAY_OF_MONTH)).show();
}
});

Button btnTime= (Button) findViewById(R.id.btnTime);
btnTime.setOnClickListener(new View.OnClickListener() {
public void onClick(View v) {
new TimePickerDialog(DateTimePickerDialog.this, t,
myCalendar.get(Calendar.HOUR_OF_DAY),

```

```

myCalendar.get(Calendar.MINUTE), true).show();
}
});
updateLabel();
}
private void updateLabel() {
    lblDateAndTime.setText(fmtDateAndTime.format(myCalendar.getTime()));
}
}

```

DigitalAnalogClock.java

```

package com.example.chapter7;

import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;

public class DigitalAnalogClock extends AppCompatActivity {

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

```

Main.java

```

package com.example.chapter7;

import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.ArrayAdapter;
import android.widget.Spinner;

public class Main extends AppCompatActivity implements AdapterView.OnItemClickListener {

```

@Override

```
protected void onCreate(Bundle savedInstanceState) {  
    super.onCreate(savedInstanceState);  
    setContentView(R.layout.activity_main);  
    Spinner spinner1 = findViewById(R.id.spinner1);  
    String[] items = {"Select Options", "Date&Time Picker Dialog", "Digital&Analog Clock", "Tab  
widget", "Sliding Drawer"};  
    ArrayAdapter<String> adp = new ArrayAdapter<String>(this, R.layout.textview, items);  
    spinner1.setAdapter(adp);  
    spinner1.setOnItemSelectedListener(this);  
}
```

@Override

```
public void onItemSelected(AdapterView<?> adapterView, View view, int i, long l) {  
    switch ( adapterView.getId()){  
        case R.id.spinner1:{  
            switch(i){  
                case 0:{  
                    break;  
                }  
                case 1:{  
                    startActivity(new Intent(getApplicationContext(), DateTimePickerDialog.class));  
                    break;  
                }  
                case 2:{  
                    startActivity(new Intent(getApplicationContext(), DigitalAnalogClock.class));  
                    break;  
                }  
                case 3:{  
                    startActivity(new Intent(getApplicationContext(), Tab_Widget.class));  
                    break;  
                }  
            }  
        }  
    }  
}
```

```

    }
    case 4:{
        startActivity(new Intent(getApplicationContext(),SlidingDrawer.class));
        break;
    }
    }
    break;
}
}
}

@Override

public void onNothingSelected(AdapterView<?> adapterView) {

}

}

```

SlidingDrawer.java

```

package com.example.chapter7;

import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;

public class SlidingDrawer extends AppCompatActivity {

    @Override

    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_sliding_drawer);
    }

}

```

Tab\_Widget.java

```

package com.example.chapter7;

import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.widget.TabHost;

```

```

public class Tab_Widget extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_tab_widget);
        TabHost tabs=(TabHost)findViewById(R.id.tabhost);
        tabs.setup();
        TabHost.TabSpec spec;
        spec =tabs.newTabSpec("tag1");
        spec.setContent(R.id.tab1);
        spec.setIndicator("1-Clock");
        tabs.addTab(spec);
        spec=tabs.newTabSpec("tag2");
        spec.setContent(R.id.tab2);
        spec.setIndicator("2-Login");
        tabs.addTab(spec);
        tabs.setCurrentTab(0);
    }
}

```

## XML layouts:

activity\_datetimepickerdialog.xml

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout 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:orientation="vertical"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".DateTimePickerDialog">

```

```
<TextView
    android:id="@+id/lblDateAndTime"
    android:layout_width="match_parent"
    android:layout_height="47px"
    android:background="#ff000099"
    android:textStyle="bold">
```

```
</TextView>
```

```
<Button
    android:id="@+id/btnDate"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="Set the Date">
```

```
</Button>
```

```
<Button
    android:id="@+id/btnTime"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="Set the Time">
```

```
</Button>
```

```
</LinearLayout>
```

```
activity_digital_analog_clock.xml
```

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

```
<LinearLayout 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:orientation="vertical"
```

```
    android:layout_height="match_parent"
```

```
    tools:context=".DigitalAnalogClock">
```

```
<DigitalClock
```

```
android:id="@+id/digital"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:background="#ff0000ff"
android:textSize="20px"
android:layout_below="@+id/analog"
android:layout_centerHorizontal="true"
```

```
>
```

```
</DigitalClock>
```

```
<AnalogClock
```

```
android:id="@+id/analog"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_alignParentTop="true"
android:layout_alignParentLeft="true"
```

```
>
```

```
</AnalogClock>
```

```
</LinearLayout>
```

```
activity_main.xml
```

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

```
<LinearLayout 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:orientation="vertical"
```

```
android:layout_width="match_parent"
```

```
android:layout_height="match_parent"
```

```
tools:context=".Main">
```

```
<Spinner
```

```
android:layout_width="wrap_content"
```

```
android:layout_height="wrap_content"
```



```
        android:id="@+id/spinner1"

    />

</LinearLayout>

activity_sliding_drawer.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=".SlidingDrawer">

    <TextView

        android:id="@+id/label0"

        android:layout_alignParentTop="true"

        android:layout_width="match_parent"

        android:layout_height="wrap_content"

        android:background="#ffcc3300"

        android:text="SlidingDrawerDemo"

        android:textSize="24sp" />

    <SlidingDrawer

        android:id="@+id/drawer"

        android:layout_alignParentBottom="true"

        android:layout_width="fill_parent"

        android:layout_height="fill_parent"

        android:handle="@+id/handle"

        android:content="@+id/content" >

        <ImageView

            android:id="@+id/handle"

            android:layout_width="40sp"

            android:layout_height="40sp"
```

```
android:src="@drawable/tray_handle_normal" />
```

```
<LinearLayout
```

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

```
android:layout_width="fill_parent"
```

```
android:layout_height="fill_parent"
```

```
android:orientation="vertical" >
```

```
<TextView
```

```
android:id="@+id/label1"
```

```
android:layout_width="fill_parent"
```

```
android:layout_height="wrap_content"
```

```
android:background="#ff006666"
```

```
android:text="Line 1"
```

```
android:textSize="22sp" />
```

```
<TextView
```

```
android:id="@+id/label2"
```

```
android:layout_width="fill_parent"
```

```
android:layout_height="wrap_content"
```

```
android:background="#ff669900"
```

```
android:text="Line 2"
```

```
android:textSize="22sp" />
```

```
<TextView
```

```
android:id="@+id/label3"
```

```
android:layout_width="fill_parent"
```

```
android:layout_height="wrap_content"
```

```
android:background="#ff0000cc"
```

```
android:text="Line 3"
```

```
android:textSize="22sp" />
```

```
<TextView
```

```
android:id="@+id/filler1"
```

```
android:layout_width="fill_parent"
```

```
android:layout_height="wrap_content"
```

```
android:textSize="6sp" />
```

```
<Button
```

```
android:id="@+id/btn1"
```

```
android:layout_width="wrap_content"
```

```
android:layout_height="wrap_content"
```

```
android:padding="4px"
```

```
android:text=" btn1 -time? " />
```

```
<Button
```

```
android:id="@+id/btn2"
```

```
android:layout_width="wrap_content"
```

```
android:layout_height="wrap_content"
```

```
android:padding="4px"
```

```
android:text=" btn2 -close " />
```

```
</LinearLayout>
```

```
</SlidingDrawer>
```

```
</RelativeLayout>
```

```
activity_tab_widget.xml
```

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

```
<LinearLayout 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:orientation="vertical"
```

```
android:layout_height="match_parent"
```

```
tools:context=".Tab_Widget">
```

```
<TabHost
```

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

```
android:layout_width="match_parent"
```

```
android:layout_height="match_parent">
```

```

<TabWidget
    android:id="@android:id/tabs"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"/>
<FrameLayout
    android:id="@android:id/tabcontent"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:paddingTop="62px">
    <!--PUT HERE FrameLayout1 --><!--PUT HERE FrameLayout2 -->
    <FrameLayout
        android:id="@+id/tab1"
        android:layout_width="match_parent"
        android:layout_height="match_parent">
        <include
            layout="@layout/tab1"
        />
    </FrameLayout>
    <FrameLayout
        android:id="@+id/tab2"
        android:layout_width="match_parent"
        android:layout_height="match_parent">
        <include
            layout="@layout/tab2" />
    </FrameLayout>
</FrameLayout>
</TabHost>
</LinearLayout>
tab1.xml
<?xml version="1.0" encoding="utf-8"?>

```

```
<AnalogClock xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:id="@+id/tab1"
    >
</AnalogClock>
```

tab2.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical"
    android:id="@+id/tab2"
    android:layout_width="match_parent"
    android:layout_height="match_parent">
    <TextView
        android:id="@+id/caption1"
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:background="#ff0000ff"
        android:text="Person Name"
        android:textSize="20px">
    </TextView>
    <EditText
        android:id="@+id/txtPerson"
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:text="txtPerson"
        android:textSize="18sp">
    </EditText>
    <Button
        android:id="@+id/btnGo"
```

```
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Go">
```

```
</Button>
```

```
</LinearLayout>
```

```
textview.xml
```

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

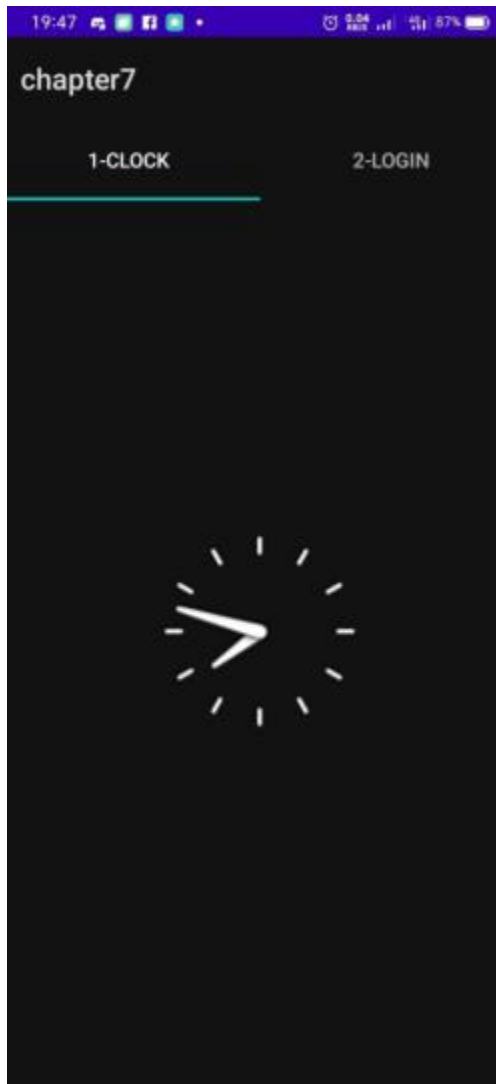
```
<TextView xmlns:android="http://schemas.android.com/apk/res/android"
```

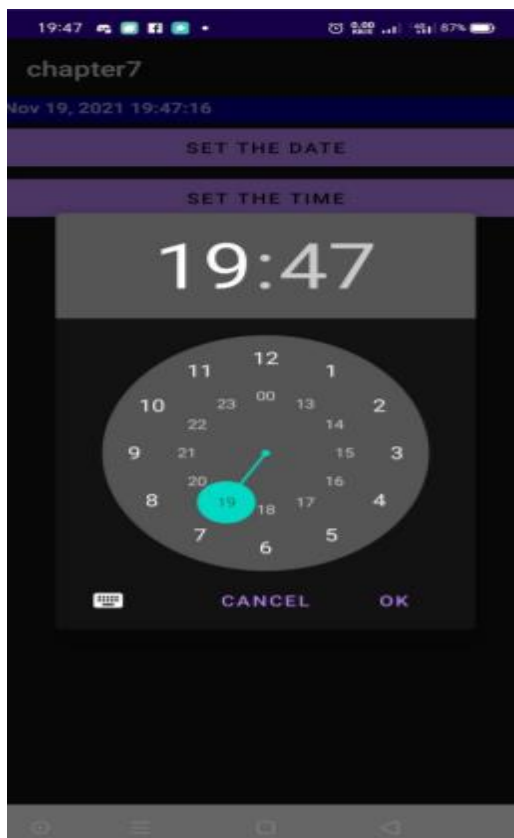
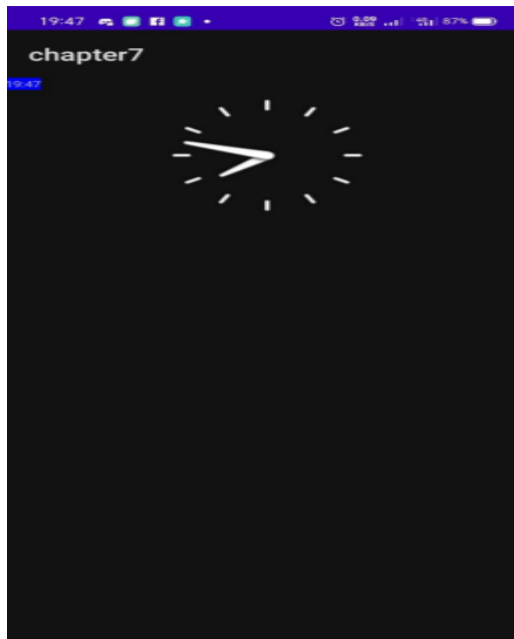
```
    android:layout_width="match_parent"
```

```
    android:layout_height="match_parent">
```

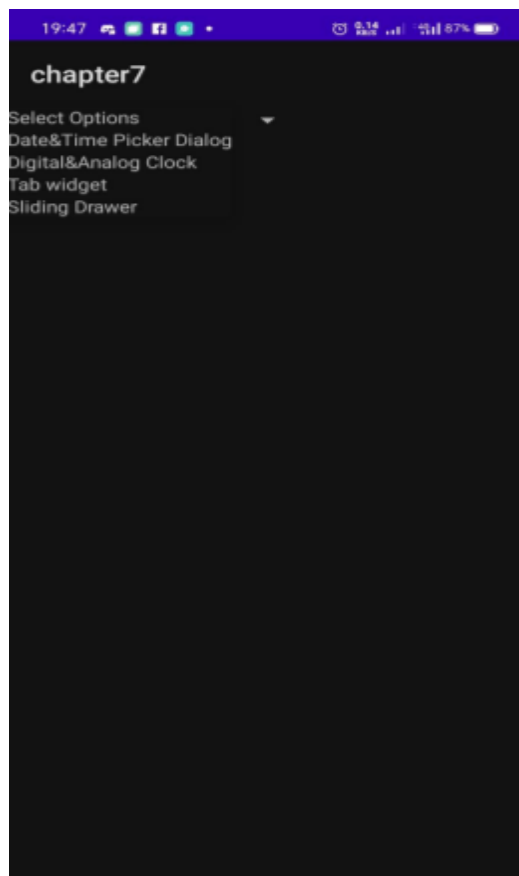
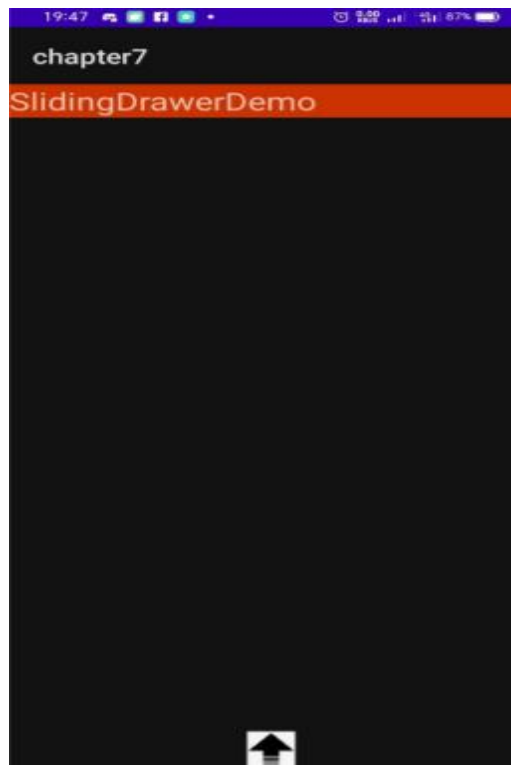
```
</TextView>
```

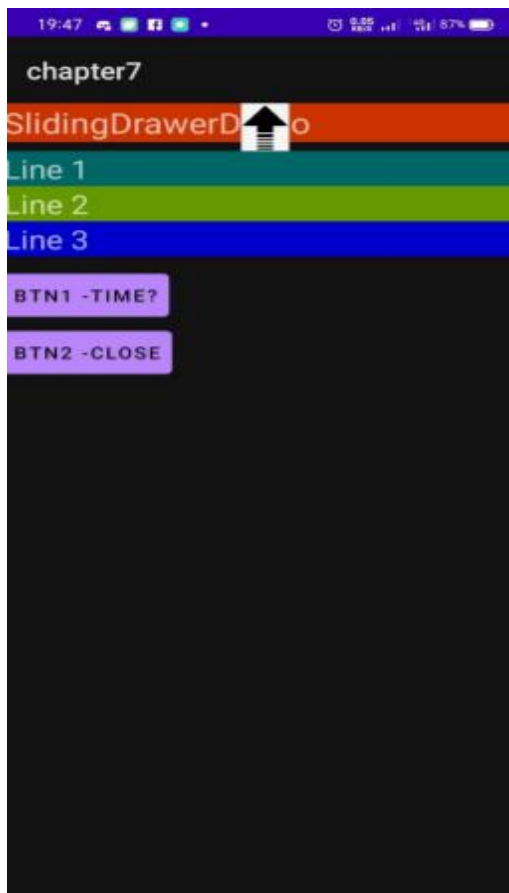
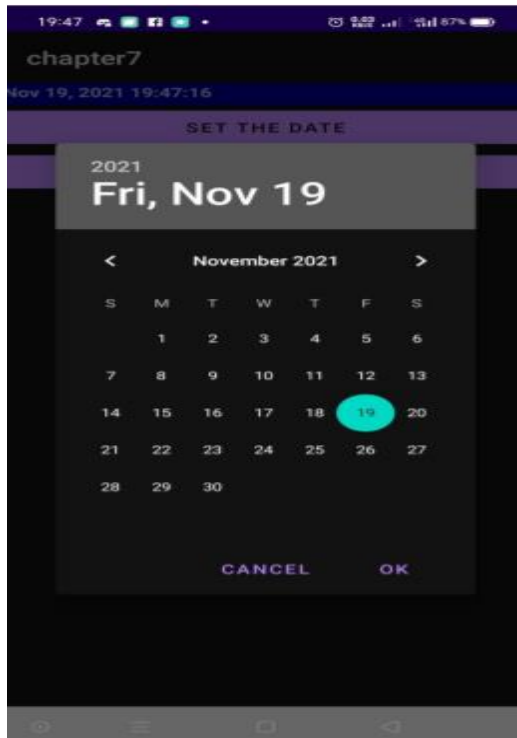
## Screenshots:











## Chapter 8

### Java classes:

MainActivity.java

```
package com.example.chapter8;

import androidx.appcompat.app.AppCompatActivity;
import android.graphics.Color;
import android.os.Bundle;
import android.text.Html;
import android.text.Spanned;
import android.view.ContextMenu;
import android.view.Menu;
import android.view.MenuItem;
import android.view.SubMenu;
import android.view.View;
import android.widget.EditText;

public class MainActivity extends AppCompatActivity {
    EditText etMessage1, etMessage2;
    Integer[] arrayPointSize = { 10,20,30,40,50};
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        etMessage1 = findViewById(R.id.etMessage1);
        etMessage2 = findViewById(R.id.etMessage2);
        registerForContextMenu(etMessage1);
        registerForContextMenu(etMessage2);
    }
    @Override
    public boolean onCreateOptionsMenu(Menu menu) {
```

```

// only one Option menu per activity

populateMyFirstMenu(menu);

return super.onCreateOptionsMenu(menu);

}

@Override

public boolean onPrepareOptionsMenu(Menu menu){

//populateMyFirstMenu(menu);

return super.onPrepareOptionsMenu(menu);

}

private void populateMyFirstMenu(Menu menu){

int groupId = 0;

//arguments: groupId, optionId, order, title

MenuItem item1 =menu.add(groupId, 1, 1, "10 points");

MenuItem item2 =menu.add(groupId, 2, 2, "20 points");

MenuItem item3 =menu.add(groupId, 3, 3, "30 points");

MenuItem item4 =menu.add(groupId, 4, 4, "40 points");

//menu.add(groupId, 5, 5, "50 points");

menu.add(groupId, 6, 8, "Red text");

menu.add(groupId, 7, 7, "Green Text");

menu.add(groupId, 8, 6, "Blue text");

item1.setIcon(R.drawable.france);

item2.setIcon(R.drawable.germany);

item3.setIcon(R.drawable.uk);

item4.setIcon(R.drawable.us);

item1.setShortcut('1','1');

item2.setShortcut('2','2');

item3.setShortcut('3','3');

item4.setShortcut('4','4');

int smGroupId = 0; // don't care, same as Menu.NONE

int smItemId = 5; // fifth element

```

```

int smOrder = 5; // don't care, same as Menu.NONE

SubMenu subMenu = menu.addSubMenu(smGroupId,smItemId,smOrder,"Sub
menu");

subMenu.setHeaderIcon(R.drawable.uk);

subMenu.setIcon(R.drawable.us);

MenuItem sub51 = subMenu.add(smGroupId,5,1,"sub-menu 5-1");
MenuItem sub52 = subMenu.add(smGroupId,5,2,"sub-menu 5-2");
MenuItem sub53 = subMenu.add(smGroupId,5,3,"sub-menu 5-3");
}

public void onCreateContextMenu(ContextMenu menu, View v,
ContextMenu.ContextMenuInfo menuInfo) {
super.onCreateContextMenu(menu, v, menuInfo);

if (v.getId() == etMessage1.getId())
// create a menu for etMessage1 box
populateMyFirstMenu(menu);

if (v.getId() == etMessage2.getId()){
// create a menu for etMessage2 box
populateMySecondMenu(menu);
}
}

private void populateMySecondMenu(Menu menu){
int groupId = 0;

//arguments: groupId, optionId, order, title
menu.add(groupId, 9, 1, "Bold");
menu.add(groupId, 10, 2, "Italic");
menu.add(groupId, 11, 3, "Normal");
}

@Override

public boolean onContextItemSelected(MenuItem item) {
return(applyMenuOption(item) ||

```

```

super.onContextItemSelected(item) );
}
@Override
public boolean onOptionsItemSelected(MenuItem item) {
return(applyMenuOption(item) ||
super.onOptionsItemSelected(item) );
}
private boolean applyMenuOption(MenuItem item){
int menuItemId = item.getItemId(); // 1, 2, 3, ...11
String strMsg2 = etMessage2.getText().toString();
if (menuItemId < 5) {
// first five option are for setting text size
int newPointSize = arrayPointSize[menuItemId - 1];
etMessage1.setTextSize(newPointSize);
etMessage2.setTextSize(newPointSize);
}
else if (menuItemId == 5) {
etMessage1.setText(
"You have selected: \n" + item.getTitle()
+ "\nId: " + menuItemId
+ " order: " + item.getOrder());
}
else {
// either change color on box text1 or style on text2
if (menuItemId == 6)
etMessage1.setTextColor(Color.RED);
//etMessage1.setTextColor(0xffff0000); // red
else if (menuItemId == 7)
etMessage1.setTextColor(0xff00ff00); // green
else if (menuItemId == 8)

```

```

etMessage1.setTextColor(0xff0000ff); // blue
else if (menuItemId == 9)
etMessage2.setText(beautify(strMsg2, "BOLD")); //bold
else if (menuItemId == 10)
etMessage2.setText(beautify(strMsg2, "ITALIC")); //italic
else if (menuItemId == 11)
etMessage2.setText(beautify(strMsg2, "NORMAL")); //normal
}
return false;
}
private Spanned beautify (String originalText, String selectedStyle){
Spanned answer = null;
if (selectedStyle.equals("BOLD"))
answer = Html.fromHtml("<b>" + originalText + "</b>");
else if (selectedStyle.equals("ITALIC"))
answer = Html.fromHtml("<i>" + originalText + "</i>");
else if (selectedStyle.equals("NORMAL"))
answer = Html.fromHtml("<normal>" + originalText + "</normal>");
return answer;
}
}

```

## XML layouts:

activity\_main.xml

```

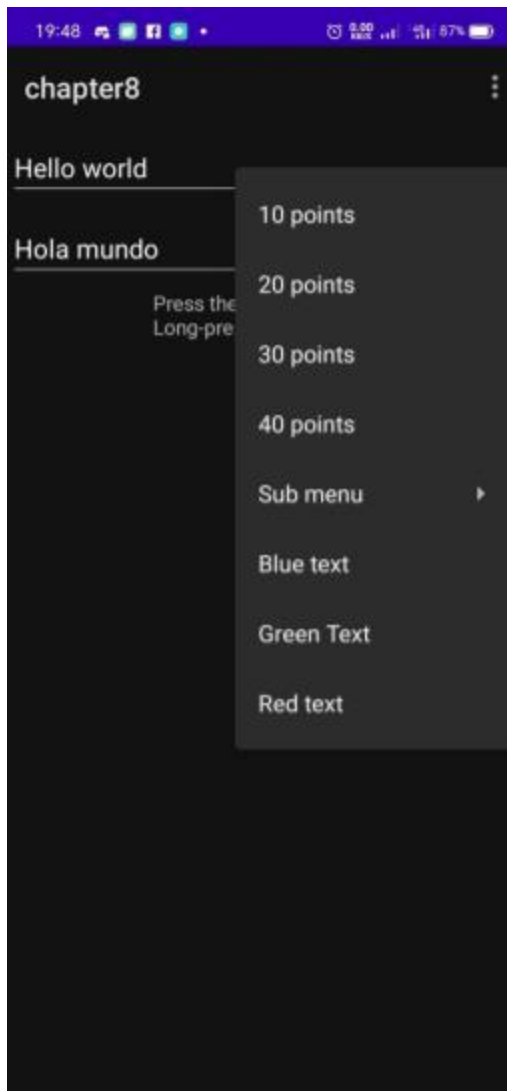
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:tools=http://schemas.android.com/tools
android:orientation="vertical"
android:layout_width="match_parent"

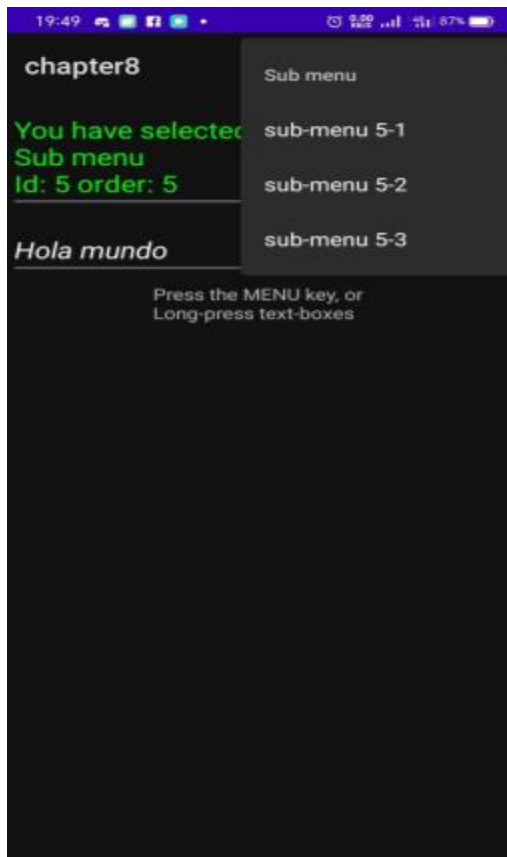
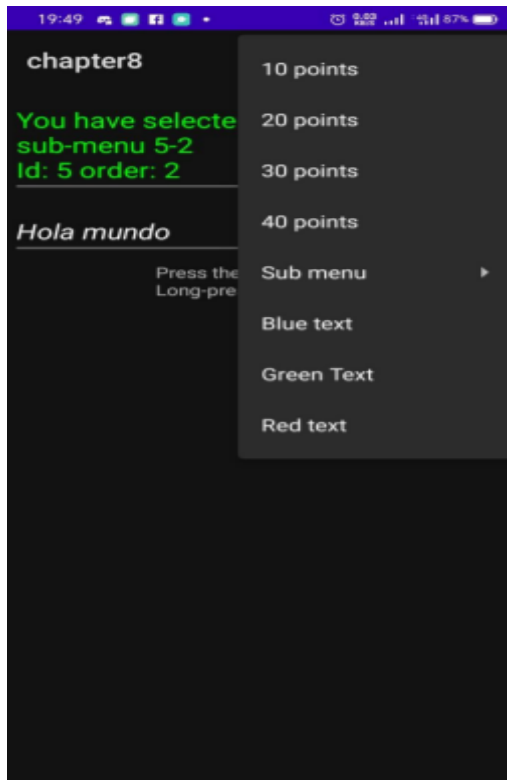
```

```
    android:layout_height="match_parent"
    tools:context=".MainActivity">
    <EditText
    android:id="@+id/etMessage1"
    android:text="Hello world"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_margin = "5dp" />
    <EditText
    android:id="@+id/etMessage2"
    android:text="Hola mundo"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_margin = "5dp" />
    <TextView
    android:text="Press the MENU key, or \nLong-press text-boxes"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="center" />
</LinearLayout>
```



## Screenshots:





## Chapter 9

### Java classes:

MainActivity.java

```
package com.example.chapter9;

import androidx.appcompat.app.AppCompatActivity;
import android.graphics.Typeface;
import android.os.Bundle;
import android.widget.TextView;

public class MainActivity extends AppCompatActivity {

    @Override

    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        TextView textView = findViewById(R.id.custom);
        Typeface typeface = Typeface.createFromAsset(getAssets(),"fonts/mvboli.ttf");
        textView.setTypeface(typeface);
    }
}
```

### Xml layouts:

activity\_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<TableLayout 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:orientation="vertical"
    android:stretchColumns="1"
    tools:context=".MainActivity">
```

```
<TableRow
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal"
    android:id="@+id/row1">
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:background="#ff006666"
        android:layout_marginRight="24px"
        android:text="sans:"
        android:textSize="20sp"
    />
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Hello, world!"
        android:textSize="20sp"
        android:typeface="sans"
    />
</TableRow>
<TableRow
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal"
    android:id="@+id/row2">
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:background="#ff006666"
```

```
        android:layout_marginRight="24px"
        android:text="sans:"
        android:textSize="20sp"
    />

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Hello, world!"
        android:textSize="20sp"
        android:typeface="serif"
    />
</TableRow>
<TableRow
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal"
    android:id="@+id/row3">
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:background="#ff006666"
        android:layout_marginRight="24px"
        android:text="sans:"
        android:textSize="20sp"
    />
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Hello, world!"
        android:textSize="20sp"
```

```
        android:typeface="monospace"
    />
</TableRow>
<TableRow
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal"
    android:id="@+id/row4">
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:background="#ff006666"
        android:layout_marginRight="24px"
        android:text="sans:"
        android:textSize="20sp"
    />
    <TextView
        android:id="@+id/custom"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Hello, world!"
        android:textSize="20sp"
    />
</TableRow>
</TableLayout>
```

## Screenshot:

