

Practical no 13 Develop a program to implement progressbar

1) Write a program to display circular progress bar

XML file:

```
<?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">

    <ProgressBar
        android:layout_width="200dp"
        android:layout_height="200dp"
        android:id="@+id/p1"
        android:foregroundGravity="center"/>
</RelativeLayout>
```

Java file :

```
package com.example.p13_1;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.widget.ProgressBar;

public class MainActivity extends AppCompatActivity {
    ProgressBar myprogressbar;
    int myprogress=0;
    Thread mythread;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        myprogressbar=findViewById(R.id.p1);
        mythread=new Thread();

        mythread.start();
    }
}
```

```
}

public void run()
{
    while (myprogress<100)
    {
        try
        {
            myprogress++;
            myprogressbar.setProgress(myprogress);
            Thread.sleep(100);

        }
        catch (Exception e)

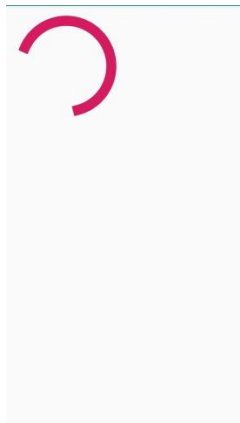
        {

        }

    }

}
```

Output:



2) Write a program to display following output

XML file:

```
<?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">

    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Download"
        android:onClick="download"
        android:id="@+id/b1"
        android:layout_marginLeft="125dp"
        android:layout_marginStart="125dp"
        android:layout_centerVertical="true"/>
</RelativeLayout>
```

Java file:

```
package com.example.p13_1;
import androidx.appcompat.app.AppCompatActivity;

import android.app.ProgressDialog;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;

public class MainActivity extends AppCompatActivity {

    Button b1;

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

        b1=findViewById(R.id.b1);

    }
```

```

private ProgressDialog progress;

public void download(View view) {
    progress = new ProgressDialog(this);
    progress.setMessage("File downloading");
    progress.setProgressStyle(ProgressDialog.STYLE_HORIZONTAL);

    progress.setIndeterminate(true);

    progress.setProgress(0);

    progress.show();

    final int totalProgressTime = 100;

    final Thread t = new Thread() {

        public void run() {

            int jumpTime = 0;

            while (jumpTime < totalProgressTime) {

                try {

                    sleep(200);

                    jumpTime += 5;

                    progress.setProgress(jumpTime);

                } catch (InterruptedException e) {

                    e.printStackTrace();

                }

            }

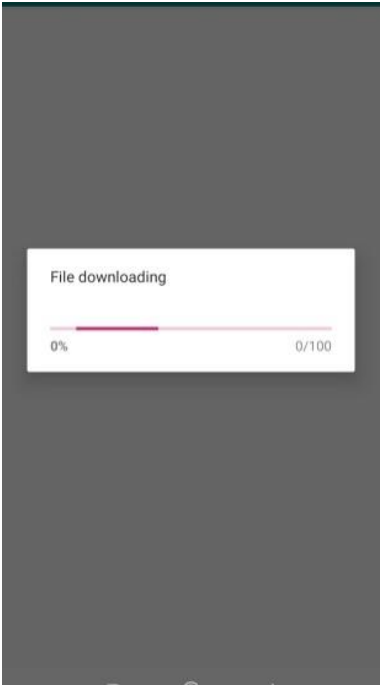
        }

    };

    t.start();
}
}

```

Output:



Practical no 14 Develop a program to implement listview, gridview, imageview, scrollview

1) Write a program to display following output. Use appropriate view.

XML file:

```
<?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:layout_height="match_parent"
    tools:context=".MainActivity"
    android:orientation="vertical">

    <ListView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/l1"
    ></ListView>

</LinearLayout>
```

Java file:

```
package com.example.myapplication3;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.widget.ArrayAdapter;
import android.widget.ListView;

public class MainActivity extends AppCompatActivity {
    String[] mobile_array={"java","c++","c#","html","python","Ajax","sap","Ruby"};
    ListView l;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        ArrayAdapter adapter=new
```

```

ArrayAdapter(this,R.layout.activity_main,mobile_array);
    l=findViewById(R.id.l1);
    l.setAdapter(adapter);
}
}

```

Output:



2) Write a program to display an image using image view and a button named “Change Image” once you click on button image should get changed.

XML file:

```

<?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"
    android:orientation="vertical">

    <ImageView
        android:layout_width="200dp"
        android:layout_height="200dp"
        android:id="@+id/i1"
        android:layout_centerInParent="true"
        android:src="@drawable/ic_launcher_background"
    ></ImageView>

    <Button

```

```

        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Change Image"
        android:textSize="40dp"
        android:id="@+id/b1"
        android:layout_below="@id/i1"
        android:layout_marginLeft="60dp"
        android:layout_marginTop="50dp"
    ></Button>

```

```
</RelativeLayout>
```

Java file:

```

package com.example.myapplication2;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.ImageView;

public class MainActivity extends AppCompatActivity {
    ImageView ii1;
    Button bb1;

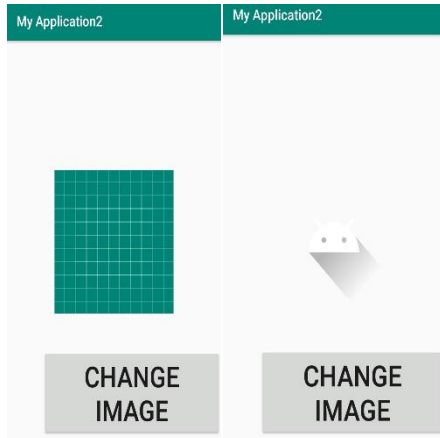
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        ii1=findViewById(R.id.i1);
        bb1=findViewById(R.id.b1);
        bb1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                ii1.setBackgroundResource(R.drawable.ic_launcher_foreground)
            }
        });
    }
}

```



```
}
}
```

output:



3) Write a program to display text view using vertical scroll view

Xml file:

```
<?xml version="1.0" encoding="utf-8"?>
<ScrollView 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:id="@+id/s1"
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical">
<RelativeLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/t1"
        android:text="This is text view "
        android:textSize="30dp"
        android:layout_marginLeft="50dp"
    ></TextView>
```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/t2"
    android:text="This is text view "
    android:layout_marginLeft="50dp"
    android:textSize="30dp"
    android:layout_below="@id/t1"
></TextView>
```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/t3"
    android:text="This is text view "
    android:textSize="30dp"
    android:layout_marginLeft="50dp"
    android:layout_below="@id/t2"
></TextView>
```

```
<TextView
    android:id="@+id/t4"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_below="@id/t3"
    android:layout_marginLeft="50dp"
    android:layout_marginTop="13dp"
    android:text="This is text view "

    android:textSize="30dp"></TextView>
```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/t5"
    android:text="This is text view "
    android:textSize="30dp"
    android:layout_marginLeft="50dp"
    android:layout_below="@id/t4"
></TextView>
```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/t6"
    android:text="This is text view "
    android:textSize="30dp"
    android:layout_marginLeft="50dp"
```

```
        android:layout_below="@id/t5"
    ></TextView>
    <TextView
        android:layout_width="wrap_content"
    ></TextView>
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/t8"
        android:text="This is text view "
        android:textSize="30dp"
        android:layout_marginLeft="50dp"
        android:layout_below="@id/t7"
    ></TextView>
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/t9"
        android:text="This is text view "
        android:layout_marginLeft="50dp"
        android:textSize="30dp"
        android:layout_below="@id/t8"
    ></TextView>
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/t10"
        android:text="This is text view "
        android:textSize="30dp"
        android:layout_marginLeft="50dp"
        android:layout_below="@id/t9"
    ></TextView>
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@id/t10"
        android:id="@+id/t11"
        android:text="This is text view "
        android:textSize="30dp"
        android:layout_marginLeft="50dp"
    ></TextView>

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
```

```

        android:id="@+id/t12"
        android:text="This is text view "
        android:layout_marginLeft="50dp"
        android:textSize="30dp"
        android:layout_below="@id/t11"
    ></TextView>
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/t13"
    android:text="This is text view "
    android:textSize="30dp"
    android:layout_marginLeft="50dp"
    android:layout_below="@id/t12"
></TextView>

<TextView
    android:id="@+id/t14"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_below="@id/t13"
    android:layout_marginLeft="50dp"
    android:layout_marginTop="13dp"
    android:text="This is text view "

    android:textSize="30dp"></TextView>

<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/t15"
    android:text="This is text view "
    android:textSize="30dp"
    android:layout_marginLeft="50dp"
    android:layout_below="@id/t14"
></TextView>
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/t16"
    android:text="This is text view "
    android:textSize="30dp"
    android:layout_marginLeft="50dp"
    android:layout_below="@id/t15"
></TextView>
<TextView

```

```
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/t17"
        android:text="This is text view "
        android:layout_marginLeft="50dp"
        android:textSize="30dp"
        android:layout_below="@id/t16"
    ></TextView>
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/t18"
    android:text="This is text view "
    android:textSize="30dp"
    android:layout_marginLeft="50dp"
    android:layout_below="@id/t17"
    ></TextView>
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/t19"
    android:text="This is text view "
    android:layout_marginLeft="50dp"
    android:textSize="30dp"
    android:layout_below="@id/t18"
    ></TextView>
```

```
</RelativeLayout>
</ScrollView>
```

Output:

My Application3

This is text view
This is text view
This is text view

[illegible]

Practical no 15 Develop a program to implement Custom toast alert

1) Write a program to display following toast message

XML file:

```
<?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:layout_height="match_parent

    android:orientation="vertical"
    tools:context=".MainActivity">
```

```
<TextView
```

```
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Hello World,Toast Example"
    android:textSize="20dp"
    android:id="@+id/t1"
    android:layout_marginTop="20dp"
    android:layout_marginLeft="20dp"/>
```

```
<Button
```

```
    android:layout_width="wrap_content"

    android:layout_height="wrap_content"

    android:text="Show toast"

    android:id="@+id/b1"

    android:layout_marginLeft="20dp"
```

```
        android:layout_marginTop="20dp"
    </LinearLayout>
```

java file:

```
package com.example.p15_1;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {
    Button bu1;
    TextView tv1;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);
        bu1=findViewById(R.id.b1);
        tv1=findViewById(R.id.t1);
        bu1.setOnClickListener(new View.OnClickListener() {
            @Override

            public void onClick(View v) {

                Toast.makeText(MainActivity.this, "Message for you:"+"\n"+"You have got mail",
                Toast.LENGTH_SHORT).show();

            }

        });
    }
}
```

Output:



:

- 1) Write a program to display three checkboxes and one button named “order” as shown below once you select the button it should display different selected checkboxes along with items individual and total price.

XML file:

```
<?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:layout_height="match_parent"
    android:background="#CCEEFF"
    android:orientation="vertical"
    tools:context=".MainActivity">

    <CheckBox

        android:id="@+id/cb1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Pizza"

        android:gravity="center"
```

```
    android:textSize="20sp"
    android:layout_marginLeft="150dp"
    android:layout_marginTop="150dp"
```

```
<CheckBox
```

```
    android:id="@+id/cb2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Burger"
    android:gravity="center"
    android:layout_marginLeft="150dp"
    android:layout_marginTop="50dp"
    android:textSize="20sp"
```

```
<CheckBox
```

```
    android:id="@+id/cb3"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Coffee"
    android:textSize="20sp"
    android:gravity="center"
    android:layout_marginLeft="150dp"
    android:layout_marginTop="50dp"
```

```
<Button
```

```
    android:id="@+id/b1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="center"
    android:gravity="center"
    android:text="Submit"
    android:layout_marginTop="70dp"
    android:textSize="30sp"
    android:textColor="#000000"
```

```
</LinearLayout>
```

java file:

```
package com.example.checkbox;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.CheckBox;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {
    CheckBox pizza,burger,coffee;

    Button bu1;

    @Override

    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        pizza=findViewById(R.id.cb1);
        burger=findViewById(R.id.cb2);
        coffee=findViewById(R.id.cb3);
        bu1=findViewById(R.id.b1);

        bu1.setOnClickListener(new View.OnClickListener() {

            @Override

            public void onClick(View v) {
                StringBuffer res=new StringBuffer();

                int sum=0;

                res.append("Selected Item");

                if(pizza.isChecked())

                {

                    res.append("Pizza Rs.100");

                    sum=sum+100;
                }
            }
        });
    }
}
```

```
        if (burger.isChecked())
        {
            res.append("Burger Rs.200");
            sum=sum+200;
        }
        if (coffee.isChecked())
        {
            res.append("Coffee Rs.300");
            sum=sum+300;
        }
        res.append("Total amount"+sum+"Rs");
        Toast.makeText(MainActivity.this, res.toString(), Toast.LENGTH_LONG).show();
    }
    });
}
}
```

Output:

☒ Pizza

☒ Burger

☒ Coffee

SUBMIT

Selected Item: Pizza Rs. 100
Burger Rs. 200
Coffee Rs. 300
Total amount: 600Rs

Practical No 16: Develop a program to implement Date and Time Picker

- 1) Write a program to display following output

```
RelativeLayout xmlns:android="https://schemas.android.com/apk/res/android"
    xmlns:tools="https://schemas.android.com/tools" android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    android:paddingBottom="@dimen/activity_vertical_margin" tools:context=".MainActivity">
```

```
<EditText
    android:layout_width="200dp"
    android:layout_height="wrap_content"
    android:id="@+id/in_date"
    android:layout_marginTop="82dp"
    android:layout_alignParentTop="true"
    android:layout_alignParentLeft="true"
    android:layout_alignParentStart="true" />
```

```
<Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="SELECT DATE"
    android:id="@+id/btn_date"
    android:layout_alignBottom="@+id/in_date"
    android:layout_toRightOf="@+id/in_date"
    android:layout_toEndOf="@+id/in_date" />
```

```
<EditText
    android:layout_width="200dp"
    android:layout_height="wrap_content"
    android:id="@+id/in_time"
    android:layout_below="@+id/in_date"
    android:layout_alignParentLeft="true"
    android:layout_alignParentStart="true" />
```

```
<Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="SELECT TIME"
    android:id="@+id/btn_time"
    android:layout_below="@+id/btn_date"
    android:layout_alignLeft="@+id/btn_date"
    android:layout_alignStart="@+id/btn_date" />
```

</RelativeLayout>

Java file :

```
package com.example.myapplication;
import android.app.AppCompatActivity;
import android.os.Bundle;
import android.view.Menu;
import android.view.MenuItem;
import android.view.View;
import android.widget.Button;
import android.widget.DatePicker;
import android.widget.EditText;
import android.widget.TimePicker;
import java.util.Calendar;

public class MainActivity extends AppCompatActivity implements
    View.OnClickListener {
    Button btnDatePicker, btnTimePicker;
    EditText Date, Time;

    public int Year, Month, Day, Hour, Minute;

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

        btnDatePicker=(Button)findViewById(R.id.btn_date);
        btnTimePicker=(Button)findViewById(R.id.btn_time);
        Date=(EditText)findViewById(R.id.in_date);
        Time=(EditText)findViewById(R.id.in_time);

        btnDatePicker.setOnClickListener(this);
        btnTimePicker.setOnClickListener(this);

    }

    @Override
    public void onClick(View v) {

        if (v == btnDatePicker) {

            // Get Current Date
```

```

        final Calendar c = Calendar.getInstance();
        Year = c.get(Calendar.YEAR);
        Month = c.get(Calendar.MONTH);
        Day = c.get(Calendar.DAY_OF_MONTH);

DatePickerDialog datePickerDialog = new DatePickerDialog(this,
new DatePickerDialog.OnDateSetListener() {

    @Override
    public void onDateSet(DatePicker view, int year,
    int monthOfYear, int dayOfMonth) {

        Date.setText(dayOfMonth + "-" + (monthOfYear + 1) + "-" + year);

    }
    }, mYear, mMonth, mDay);
    datePickerDialog.show();
}
if (v == btnTimePicker) {

    final Calendar c = Calendar.getInstance();
    Hour = c.get(Calendar.HOUR_OF_DAY);
    Minute = c.get(Calendar.MINUTE);

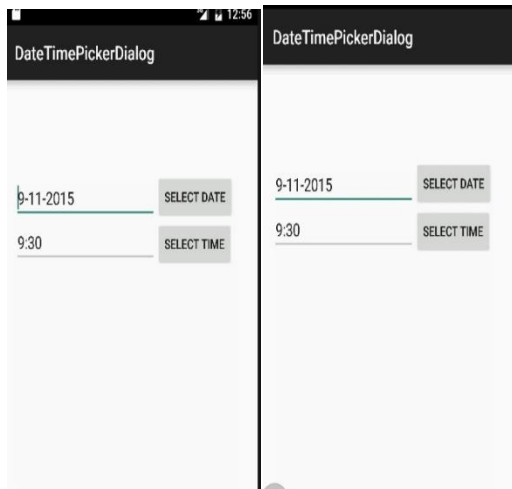
    TimePickerDialog timePickerDialog = new TimePickerDialog(this,
        new TimePickerDialog.OnTimeSetListener() {

            @Override
            public void onTimeSet(TimePicker view, int hourOfDay,
                int minute) {

                Time.setText(hourOfDay + ":" + minute);
            }
        }, Hour, Minute, false);
    timePickerDialog.show();
}
}

```

Output:



1) Write a program to display following output use Timepicker with spinner mode.

XML file:

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

    <TimePicker android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_centerHorizontal="true"
        android:id="@+id/timePicker"
        android:timePickerMode="spinner"
        xmlns:android="http://schemas.android.com/apk/res/android" />

    <Button
        android:text="Display"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@+id/timePicker"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="35dp"
        android:id="@+id/button" />

    <TextView
```

```

android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:textSize="24sp"
android:layout_below="@+id/button"
android:gravity="center"
android:layout_centerHorizontal="true"
android:layout_marginTop="52dp"
android:id="@+id/textView" />

```

```

</RelativeLayout>

```

Java file:

```

package com.example.myapplication;

import android.os.Build;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;
import android.widget.TimePicker;

import androidx.annotation.RequiresApi;
import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {

    TimePicker tp;
    Button b1;
    TextView tv;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        tp=(TimePicker) findViewById(R.id.timePicker);
        b1=(Button) findViewById(R.id.button);
        tv=(TextView) findViewById(R.id.textVew);
        tp.setIs24HourView(true);
        b1.setOnClickListener(new View.OnClickListener() {
            @RequiresApi(api = Build.VERSION_CODES.M)
            @Override
            public void onClick(View v) {
                StringBuffer sb= new StringBuffer();
                if(tp.getHour()==0)

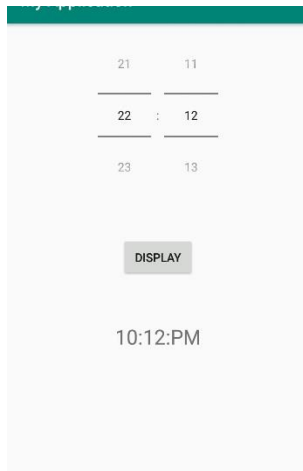
```

```

        {
            sb.append((tp.getHour()+12)+":");
            sb.append(tp.getMinute()+":");
            sb.append("AM");
        }
        else if(tp.getHour()>11)
        {
            sb.append((tp.getHour()-12)+":");
            sb.append(tp.getMinute()+":");
            sb.append("PM");
        }
        else
        {
            sb.append((tp.getHour()+":");
            sb.append(tp.getMinute()+":");
            sb.append("AM");
        }
        tv.setText(sb.toString());
    }
    });
}
}

```

output:



The screenshot shows a Java Swing window titled "Clock" with a light gray background. At the top, there is a green title bar. Below the title bar, the time is displayed in a digital format using three rows of text boxes and a colon separator. The first row shows "21" and "11". The second row shows "22" and "12". The third row shows "23" and "13". Below the time display, there is a gray button labeled "DISPLAY". At the bottom of the window, the time "10:12:PM" is displayed.

21	11
22	12
23	13

DISPLAY

10:12:PM