

Exercise:

1. Write a program to display following output

Timepicker

- activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
    xmlns:android="http://schemas.android.
com/apk/res/android"
    xmlns:tools="http://schemas.android.com/too
ls"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">
    <TimePicker android:id="@+id/time"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:timePickerMode="clock"
        android:padding="20dp"
        android:background="#D89DF1"/>
    <Button android:id="@+id/b1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@+id/time"
        android:layout_marginTop="70dp"
        android:layout_centerHorizontal="true"
        android:text="Submit"
        android:textStyle="bold"
        android:onClick="Submit"
        tools:ignore="OnClick"/>
    <TextView android:id="@+id/text1"
        android:layout_above="@+id/b1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text=""
        android:textSize="25dp"
        android:textStyle="bold"/>
</RelativeLayout>
<?xml version="1.0" encoding="utf-8"?>
```

```
<RelativeLayout
    xmlns:android="http://schemas.android.com/
apk/res/android"
    xmlns:tools="http://schemas.android.com/too
ls"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">
    <TimePicker android:id="@+id/time"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:timePickerMode="clock"
        android:padding="20dp"
        android:background="#D89DF1"/>
    <Button android:id="@+id/b1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@+id/time"
        android:layout_marginTop="70dp"
        android:layout_centerHorizontal="true"
        android:text="Submit"
        android:textStyle="bold"
        android:onClick="Submit"
        tools:ignore="OnClick"/>
    <TextView
        android:id="@+id/text1"
        android:layout_above="@+id/b1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text=""
        android:textSize="25dp"
        android:textStyle="bold"/>
</RelativeLayout>
```

- acitivitymain.java

```
package
com.example.pr16q1_timepicker;
import androidx.appcompat.app.
AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;
import android.widget.TimePicker;
public class MainActivity extends
AppCompatActivity {TextView textview;
TimePicker timePicker; Button button;
protected void onCreate(Bundle
```

```
savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    timePicker=findViewById(R.id.time);
    textview=findViewById(R.id.text1);
    button=findViewById(R.id.b1);
    button.setOnClickListener(new
View.OnClickListener() {
    public void onClick(View v) {
        textview.setText("You
Selected: " + "" +timePicker.getHour()+ "
" + timePicker.getMinute() ); } });}
```

DATEPICKER

Activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
    xmlns:android="http://schemas.android.
    com/apk/res/android"
    xmlns:tools="http://schemas.android.co
    m/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">
    <TextView android:id="@+id/t1"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
        android:text="DatePicker"
        android:textSize="25dp">
    </TextView>
    <DatePicker
        android:id="@+id/d1"
        android:layout_marginTop="100dp"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignTop="@id/t1"
```

```
]android:layout_centerInParent="true"
    android:calendarViewShown="true"
    android:datePickerMode="spinner">
    </DatePicker><Button
        android:id="@+id/b1"
        android:layout_marginTop="50dp"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Submit"
        android:layout_centerInParent="true"
        android:layout_below="@id/d1"
        android:onClick="submit"
        tools:ignore="OnClick"></Button>
    <TextView android:id="@+id/t2"
        android:layout_marginTop="20dp"
        android:layout_below="@+id/b1"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_centerInParent="true"
        android:textSize="20dp">
    </TextView></RelativeLayout>
```

MainActivity.java

```
package
com.example.pr16q1_datepicker;
import
androidx.appcompat.app.AppCompatActivity;

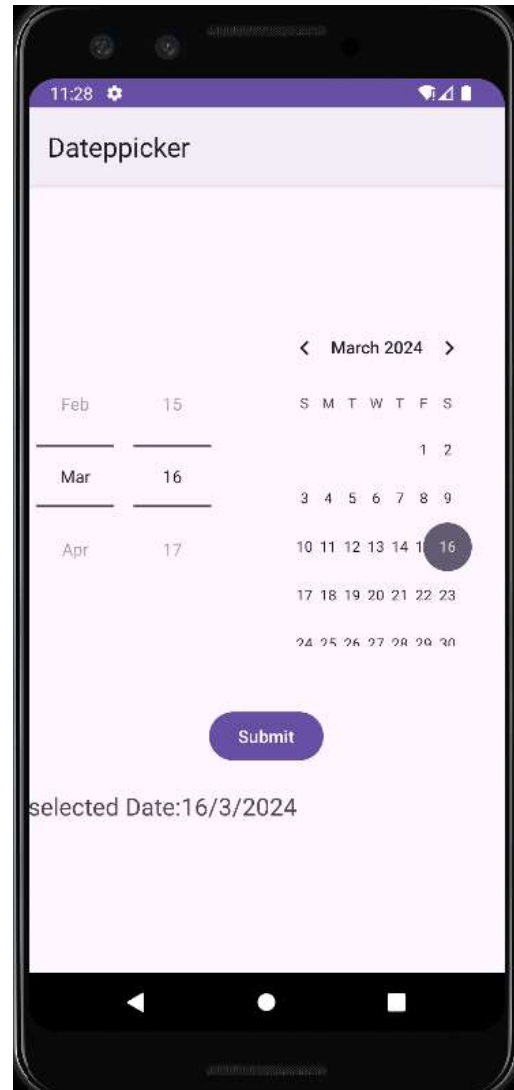
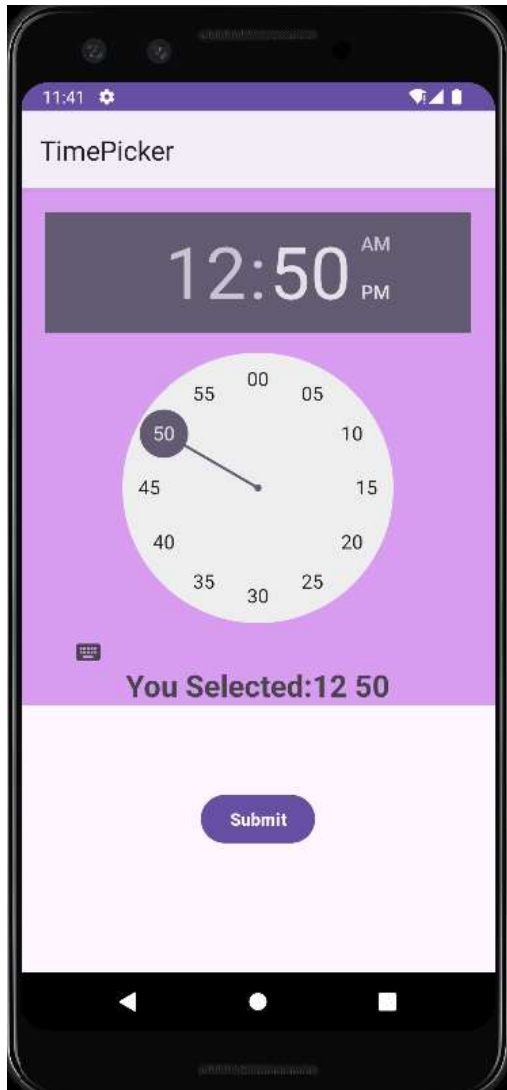
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.DatePicker;
import android.widget.TextView;

public class MainActivity extends
AppCompatActivity {
    DatePicker datePicker1;
    TextView textView1,textView2;
    Button button1;
    @Override
    protected void onCreate(Bundle
savedInstanceState) {
```

```
        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);
        datePicker1=findViewById(R.id.d1);
        textView1=findViewById(R.id.t1);
        textView1=findViewById(R.id.t2);
        button1=findViewById(R.id.b1);
        button1.setOnClickListener(new
View.OnClickListener() {
            @Override
            public void onClick(View v) {
                textView1.setText("selected
Date:"+datePicker1.getDayOfMonth()+
"/"+(datePicker1.getMonth()+1+ "/" +date
Picker1.getYear()));
            }
        });
    }
}
```

OUTPUT:



2.

Activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<TableLayout
xmlns:android="http://schemas.android.com/
apk/res/android"
xmlns:tools="http://schemas.android.com/too
ls"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:layout_margin="10dp"
    tools:context=".MainActivity">
    <TableRow
android:layout_marginTop="50dp">
        <EditText
            android:id="@+id/e1"
            android:layout_width="194dp"
            android:layout_height="wrap_content"
            android:hint="Date"></EditText>
        <Button
            android:id="@+id/b1"
```

```
        android:layout_width="130dp"
        android:text="Select Date"
        android:layout_height="wrap_content">
    </Button>
</TableRow>
    <TableRow>
        <EditText
            android:id="@+id/e2"
            android:layout_width="194dp"
            android:layout_height="wrap_content"
            android:hint="Time">
        </EditText>
        <Button
            android:id="@+id/b2"
            android:layout_width="130dp"
            android:text="Select Time"
            android:layout_height="wrap_content">
        </Button>
    </TableRow>
</TableLayout>
```

MainActivity.java

```
package com.example.pr16q2;
import androidx.appcompat.app.
AppCompatActivity;
import android.app.DatePickerDialog;
import android.app.TimePickerDialog;
import android.os.Bundle;
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 {
    EditText ed1, ed2;
    Button bu1, bu2;
    int mYear,
mMonth,mDay,mHour,mMinute;
    @Override
    protected void onCreate(Bundle
savedInstanceState) {
        super.onCreate(savedInstanceState);

    setContentView(R.layout.activity_main);
    ed1 = findViewById(R.id.e1);
    ed2 = findViewById(R.id.e2);
    bu1 = findViewById(R.id.b1);
    bu2 = findViewById(R.id.b2);
```

```
    bu1.setOnClickListener(new
View.OnClickListener() {
        @Override
        public void onClick(View v) {
            final Calendar c =
Calendar.getInstance();
            mYear = c.get(Calendar.YEAR);
            mMonth =
c.get(Calendar.MONTH);
            mDay =
c.get(Calendar.DAY_OF_MONTH);
            DatePickerDialog datePickerDialog =
new
DatePickerDialog(MainActivity.this,new
DatePickerDialog.OnDateSetListener() {
                public void onDateSet(DatePicker view,
int year,
int
monthOfYear, int dayOfMonth) {
                    ed1.setText(dayOfMonth + "-" +
(monthOfYear + 1) + "-" + year);
                }
            }, mYear, mMonth,mDay);
            datePickerDialog.show();
        }
    });
    bu2.setOnClickListener(new
View.OnClickListener() {
        public void onClick(View v) {
```

```
final Calendar c =  
Calendar.getInstance();  
mHour =  
c.get(Calendar.HOUR_OF_DAY);  
mMinute = c.get(Calendar.MINUTE);  
TimePickerDialog timePickerDialog =  
new  
TimePickerDialog(MainActivity.this,new  
TimePickerDialog.OnTimeSetListener() {
```

```
public void onTimeSet(TimePicker view,  
int hourOfDay,  
int minute) {  
ed2.setText(hourOfDay + ":" + minute);  
}  
}, mHour, mMinute, false);  
timePickerDialog.show();  
}  
});  
}
```

OUTPUT:

