## Practical – 10: Make Android App which Demonstrate use of date picker.

## Activity\_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</pre>
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/textView1"
        android:layout width="305dp"
        android:layout height="76dp"
        android:layout above="@+id/button1"
        android:layout alignParentStart="true"
        android:layout alignParentLeft="true"
        android:layout marginTop="16dp"
        android:layout marginBottom="10dp"
        android:text=""
        android:textSize="25dp"
        app:layout constraintBottom toTopOf="@+id/datePicker"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal bias="0.65"
        app:layout_constraintStart toStartOf="parent"
        app:layout_constraintTop toTopOf="parent" />
    <Button
        android:id="@+id/button1"
        android:layout width="wrap content"
        android:layout_height="wrap content"
        android:layout_alignParentBottom="true"
        android:layout_centerHorizontal="true"
        android:layout_marginBottom="131dp"
        android:text="Change Date"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintStart toStartOf="parent"
        app:layout constraintTop toBottomOf="@+id/datePicker" />
    <DatePicker
        android:id="@+id/datePicker"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:layout above="@+id/textView1"
        android:layout centerHorizontal="true"
        android:layout marginBottom="45dp"
        app:layout constraintBottom toTopOf="@+id/button1"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintStart toStartOf="parent"
        app:layout constraintTop toBottomOf="@+id/textView1" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

MainActivity.java

```
package com.example.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 picker;
    Button displayDate;
    TextView textview1;
    @Override
   protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity main);
        textview1=(TextView) findViewById(R.id.textView1);
        picker=(DatePicker)findViewById(R.id.datePicker);
        displayDate=(Button)findViewById(R.id.button1);
        textview1.setText("Current Date: "+getCurrentDate());
        displayDate.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                textview1.setText("Change Date: "+getCurrentDate());
            }
        });
    public String getCurrentDate() {
        StringBuilder builder=new StringBuilder();;
        builder.append((picker.getMonth() + 1)+"/");//month is 0 based
        builder.append(picker.getDayOfMonth()+"/");
       builder.append(picker.getYear());
       return builder.toString();
    }
}
```

## **Output:**

10:14 ♣ 10:14 ♣ 10:14 ★ 10:14

Change Date: 7/17/2021

## Sat, 17 Jul

<	July 2021					>
М	Т	W	Т	F	S	S
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5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

CHANGE DATE