

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
    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:

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datepicker

Change Date: 7/17/2021

2021

Sat, 17 Jul



July 2021



M	T	W	T	F	S	S
			1	2	3	4
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