**PR-15**

**15 Develop a program to implement Time Picker & Date Picker.**

**XML Code**

<?xml version="1.0" encoding="utf-8"?>  
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:id="@+id/mainLayout"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:orientation="vertical"  
 android:padding="24dp"  
 android:gravity="center"  
 tools:context=".MainActivity">  
  
 <TextView  
 android:id="@+id/dateTextView"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Selected Date: "  
 android:textSize="18sp"  
 android:layout\_marginBottom="20dp"/>  
  
 <Button  
 android:id="@+id/dateButton"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Pick Date" />  
  
 <TextView  
 android:id="@+id/timeTextView"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Selected Time: "  
 android:textSize="18sp"  
 android:layout\_marginTop="40dp"  
 android:layout\_marginBottom="20dp"/>  
  
 <Button  
 android:id="@+id/timeButton"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Pick Time" />  
  
</LinearLayout>

**Java Code**

package com.example.pr15\_time\_date\_picker;  
  
import android.app.DatePickerDialog;  
import android.app.TimePickerDialog;  
import android.os.Bundle;  
import android.widget.Button;  
import android.widget.TextView;  
import android.widget.TimePicker;  
import android.widget.DatePicker;  
import androidx.appcompat.app.AppCompatActivity;  
import java.util.Calendar;  
  
public class MainActivity extends AppCompatActivity {  
  
 TextView dateTextView, timeTextView;  
 Button dateButton, timeButton;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 // Initialize views  
 dateTextView = findViewById(R.id.*dateTextView*);  
 timeTextView = findViewById(R.id.*timeTextView*);  
 dateButton = findViewById(R.id.*dateButton*);  
 timeButton = findViewById(R.id.*timeButton*);  
  
 // Get current date and time  
 Calendar calendar = Calendar.*getInstance*();  
  
 // Date Picker Dialog  
 dateButton.setOnClickListener(view -> {  
 int year = calendar.get(Calendar.*YEAR*);  
 int month = calendar.get(Calendar.*MONTH*);  
 int day = calendar.get(Calendar.*DAY\_OF\_MONTH*);  
  
 DatePickerDialog datePickerDialog = new DatePickerDialog(MainActivity.this,  
 (view1, year1, month1, dayOfMonth) -> {  
 String selectedDate = dayOfMonth + "/" + (month1 + 1) + "/" + year1;  
 dateTextView.setText("Selected Date: " + selectedDate);  
 }, year, month, day);  
 datePickerDialog.show();  
 });  
  
 // Time Picker Dialog  
 timeButton.setOnClickListener(view -> {  
 int hour = calendar.get(Calendar.*HOUR\_OF\_DAY*);  
 int minute = calendar.get(Calendar.*MINUTE*);  
  
 TimePickerDialog timePickerDialog = new TimePickerDialog(MainActivity.this,  
 (view12, hourOfDay, minute1) -> {  
 String selectedTime = String.*format*("%02d:%02d", hourOfDay, minute1);  
 timeTextView.setText("Selected Time: " + selectedTime);  
 }, hour, minute, true);  
 timePickerDialog.show();  
 });  
 }  
}