

PRACTICAL 9

Aim: Create an android application that having DatePicker, TimePicker and Button with caption show. On click of show button, application will display selected date and time on same activity.

Code:

JAVA FILE: (MainActivity.java)

```
package com.example.practical9;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.DatePicker;
import android.widget.TextView;
import android.widget.TimePicker;
import androidx.appcompat.app.AppCompatActivity;
public class MainActivity extends AppCompatActivity {
    private DatePicker datePicker;
    private TimePicker timePicker;
    private Button showButton;
    private TextView resultTextView;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        datePicker = findViewById(R.id.datePicker);
        timePicker = findViewById(R.id.timePicker);
        showButton = findViewById(R.id.showButton);
        resultTextView = findViewById(R.id.resultTextView);
        showButton.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                int year = datePicker.getYear();
                int month = datePicker.getMonth() + 1; // Month is 0-based
                int dayOfMonth = datePicker.getDayOfMonth();
                int hour = timePicker.getHour();
                int minute = timePicker.getMinute();
                String selectedDateTime = String.format("%02d/%02d/%04d %02d:%02d",
                    dayOfMonth, month, year, hour, minute);
                resultTextView.setText("Current Date and Time: " + selectedDateTime);
            }
        });
    }
}
```

```
}  
}
```

XML FILE: (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/textView"  
        android:layout_width="wrap_content"  
        android:layout_height="wrap_content"  
        android:layout_marginTop="50dp"  
        android:text=" Name: Angat Shah \n Enrollment No: 202203103510097 \n Branch:
```

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```
        app:layout_constraintEnd_toEndOf="parent"  
        app:layout_constraintHorizontal_bias="0.497"  
        app:layout_constraintStart_toStartOf="parent"  
        app:layout_constraintTop_toTopOf="parent"  
        tools:ignore="MissingConstraints" />  
    <TimePicker  
        android:id="@+id/timePicker"  
        android:layout_width="200dp"  
        android:layout_height="313dp"  
        android:layout_below="@id/datePicker"  
        android:layout_centerHorizontal="true"  
        app:layout_constraintBottom_toBottomOf="parent"  
        app:layout_constraintEnd_toEndOf="parent"  
        app:layout_constraintHorizontal_bias="0.968"  
        app:layout_constraintStart_toStartOf="parent"  
        app:layout_constraintTop_toTopOf="parent"  
        app:layout_constraintVertical_bias="0.444" />  
    <DatePicker  
        android:id="@+id/datePicker"  
        android:layout_width="190dp"  
        android:layout_height="312dp"  
        android:layout_centerHorizontal="true"  
        app:layout_constraintBottom_toBottomOf="parent"  
        app:layout_constraintEnd_toEndOf="parent"  
        app:layout_constraintHorizontal_bias="0.0"
```

```
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.446" />
<Button
    android:id="@+id/showButton"
    android:layout_width="150dp"
    android:layout_height="57dp"
    android:layout_below="@id/timePicker"
    android:layout_centerHorizontal="true"
    android:text="Show"
    android:textSize="20dp"
    android:textStyle="bold"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="@+id/textView"
    app:layout_constraintVertical_bias="0.801" />
<TextView
    android:id="@+id/resultTextView"
    android:layout_width="360dp"
    android:layout_height="47dp"
    android:layout_below="@id/showButton"
    android:layout_centerHorizontal="true"
    android:text=""
    android:textStyle="italic|bold"
    android:textSize="18sp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.49"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.928" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

Enrollment No: 202203103510097

Output:

