**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: B.Tech CSE"

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"

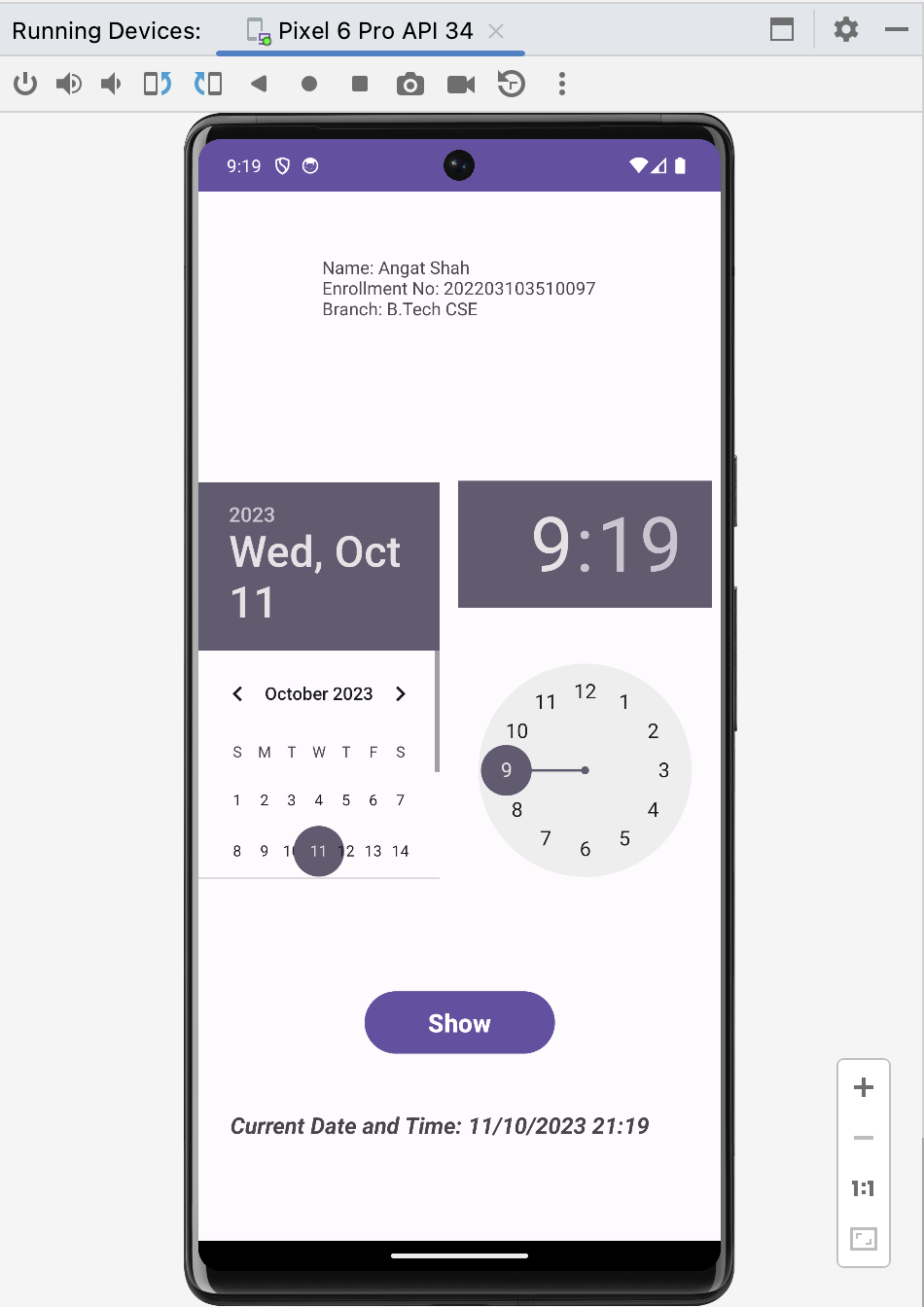
app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.928" />

</androidx.constraintlayout.widget.ConstraintLayout>

**Output:**

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