

Practical - 8

Android kotlin -

```
package com.example.calendertest1

import android.os.Bundle
import android.widget.CalendarView
import android.widget.TextView
import androidx.appcompat.app.AppCompatActivity
import androidx.core.view.ViewCompat
import androidx.core.view.WindowInsetsCompat
import java.text.SimpleDateFormat
import java.util.*

class MainActivity : AppCompatActivity() {
    private lateinit var calendarView: CalendarView
    private lateinit var selectedDateText: TextView

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)

        // Set the layout file
        setContentView(R.layout.activity_main)

        // Initialize the views
        calendarView = findViewById(R.id.calendarView)
        selectedDateText = findViewById(R.id.SelectedDateText)

        // Apply window insets for edge-to-edge layout
        ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main)) { v, insets ->
            val systemBars =
insets.getInsets(WindowInsetsCompat.Type.systemBars())
            v.setPadding(systemBars.left, systemBars.top, systemBars.right,
systemBars.bottom)
            insets
        }

        // Set a listener for date selection on the CalendarView
        calendarView.setOnDateChangeListener { _, year, month, dayOfMonth -
>
            // Format the selected date
            val selectedDate = Calendar.getInstance().apply {
                set(year, month, dayOfMonth)
            }
            val dateFormat = SimpleDateFormat("MMMM dd, yyyy",
Locale.getDefault())
            val formattedDate = dateFormat.format(selectedDate.time)

            // Update the TextView with the selected date
            selectedDateText.text = "Selected Date: $formattedDate"
        }
    }
}
```

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:id="@+id/main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <CalendarView
        android:id="@+id/calendarView"
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"

        android:dateTextAppearance="@style/TextAppearance.AppCompat.Large"/>

    <TextView
        android:id="@+id/SelectedDateText"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Selected Date:"
        android:textSize="18sp"
        android:layout_centerHorizontal="true"
        android:textStyle="bold"
        app:layout_constraintTop_toBottomOf="@id/calendarView"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent" />

</androidx.constraintlayout.widget.ConstraintLayout>
```