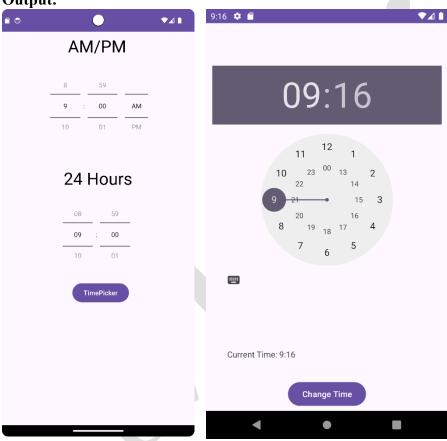
1.

```
ActivityMain.xml
<?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:layout width="match parent"
  android:layout height="match parent"
  tools:context=".MainActivity">
  <RelativeLayout
    android:layout width="match parent"
    android:layout height="600dp">
    <TextView
      android:id="@+id/textView"
      android:layout width="wrap content"
      android:layout height="wrap content"
      android:layout alignParentEnd="true"
      android:layout alignParentBottom="true"
      android:layout marginEnd="146dp"
      android:layout marginBottom="546dp"
      android:text="@string/am pm"
      android:textColor="@color/black"
      android:textSize="36sp" />
    <TimePicker
      android:id="@+id/timePicker"
      android:layout width="241dp"
      android:layout height="167dp"
      android:layout alignParentEnd="true"
      android:layout alignParentBottom="true"
      android:layout marginEnd="83dp"
      android:layout marginBottom="358dp"
      android:timePickerMode="spinner" />
    <TextView
      android:id="@+id/textView1"
      android:layout width="wrap content"
      android:layout height="wrap content"
      android:layout alignParentEnd="true"
      android:layout alignParentBottom="true"
      android:layout marginEnd="133dp"
      android:layout marginBottom="263dp"
      android:text="@string/ 24 hours"
      android:textColor="@color/black"
      android:textSize="36sp" />
```

```
<TimePicker
      android:id="@+id/timePicker1"
      android:layout width="241dp"
      android:layout height="167dp"
      android:layout alignParentEnd="true"
      android:layout alignParentBottom="true"
      android:layout marginEnd="89dp"
      android:layout marginBottom="83dp"
      android:timePickerMode="spinner" />
    <Button
      android:id="@+id/button1"
      android:layout width="wrap content"
      android:layout height="wrap content"
      android:layout alignParentEnd="true"
      android:layout alignParentBottom="true"
      android:layout marginEnd="140dp"
      android:layout marginBottom="18dp"
      android:text="TimePicker" />
  </RelativeLayout>
</LinearLayout>
Strings.xml
<resources>
  <string name="app name">Exp16 1</string>
  <string name="am pm">AM/PM</string>
  <string name=" 24 hours">24 Hours</string>
</resources>
MainActivity.Java
package com.example.exp16 1;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TimePicker;
public class MainActivity extends AppCompatActivity {
  private Button button;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity main);
    TimePicker picker = (TimePicker) findViewById(R.id.timePicker1);
    picker.setIs24HourView(true);
    button = (Button) findViewById(R.id.button1);
    button.setOnClickListener(new View.OnClickListener() {
```

```
@Override
    public void onClick(View v) {
        openActivity2();
     }
    });
}
private void openActivity2() {
    Intent intent = new Intent(this, MainActivity2.class);
    startActivity(intent);
}
```

Output:



2.

ActivityMain.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"</pre>
```

```
tools:context=".MainActivity">
  <EditText
    android:id="@+id/editTextTime"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:layout marginStart="28dp"
    android:layout marginTop="200dp"
    android:editable="false"
    android:ems="10"
    android:inputType="time"
  app:layout_constraintStart toStartOf="parent"
  app:layout constraintTop toTopOf="parent"
  tools:ignore="Deprecated" />
<EditText
  android:id="@+id/editTextDate"
  android:layout width="wrap content"
  android:layout height="wrap content"
  android:layout marginStart="24dp"
  android:layout marginBottom="576dp"
  android:editable="false"
  android:ems="10"
  android:inputType="date"
  app:layout constraintBottom toBottomOf="parent"
  app:layout constraintStart toStartOf="parent"
  tools:ignore="Deprecated" />
<Button
android:id="@+id/button"
android:layout width="wrap content"
android:layout height="wrap content"
android:layout marginStart="16dp"
android:layout marginTop="104dp"
android:text="Select Date"
app:layout constraintStart toEndOf="@+id/editTextTime"
app:layout constraintTop toTopOf="parent" />
<Button
android:id="@+id/button2"
android:layout width="wrap content"
android:layout height="wrap content"
android:layout marginStart="24dp"
android:layout marginBottom="480dp"
android:text="Select Time"
app:layout constraintBottom toBottomOf="parent"
app:layout_constraintStart_toEndOf="@+id/editTextDate" />
<TimePicker
android:id="@+id/clock"
android:layout width="wrap content"
```

```
android:layout height="wrap content"
android:layout marginStart="52dp"
android:layout marginBottom="224dp"
android:timePickerMode="spinner"
app:layout constraintBottom toBottomOf="parent"
app:layout constraintStart toStartOf="parent"
android:visibility="invisible"/>
<DatePicker
android:id="@+id/calendar"
android:layout width="303dp"
android:layout height="262dp"
android:layout marginStart="52dp"
android:layout marginBottom="172dp"
android:visibility="invisible"
app:layout constraintBottom toBottomOf="parent"
app:layout constraintStart toStartOf="parent"
  />
</androidx.constraintlayout.widget.ConstraintLayout>
```

MainActivity.java

```
package com.example.exp16 2;
import androidx.appcompat.app.AppCompatActivity;
import android.annotation.SuppressLint;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.DatePicker;
import android.widget.EditText;
import android.widget.TimePicker;
public class MainActivity extends AppCompatActivity {
  EditText Date enter, Time enter;
  Button select date, select time;
  TimePicker clock:
  DatePicker cal;
  String s1="the time is:",s2="the cal is:";
  @SuppressLint("MissingInflatedId")
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity main);
    Date enter=findViewById(R.id.editTextDate);
    Time enter=findViewById(R.id.editTextTime);
    select date=findViewById(R.id.button);
```

```
select time=findViewById(R.id.button2);
    clock=findViewById(R.id.clock);
    clock.setIs24HourView(true);
    cal=findViewById(R.id.calendar);
    select time.setOnClickListener(new View.OnClickListener() {
       @Override
       public void onClick(View view) {
         clock.setVisibility(View.VISIBLE);
         cal.setVisibility(View.INVISIBLE);
         s1=s1+clock.getHour()+":"+clock.getMinute();
         Time enter.setText(s1);
    });
    select date.setOnClickListener(new View.OnClickListener() {
       @Override
       public void onClick(View view) {
         cal.setVisibility(View.VISIBLE);
         clock.setVisibility(View.INVISIBLE);
         s2= s2 +cal.getDayOfMonth()+"-"+cal.getMonth()+"-"+cal.getYear();
         Date_enter.setText(s2);
    });
  }
}
Output:
```

