CSE4002 LAB 7

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1. Design an App Activity that finds the distance between Guntur to Chennai. When the chip buttons car is clicked then the time 7hrs should display in the textfield1, when bike is clicked 9hrs should display in second text field, when train chip button is pressed 6hrs should display and when run chip button is pressed then 40hrs should display in fourth textfield. When the arrow button is clicked, the edit Text should be swapped.

2.Design an App that plans three events by selecting the time form the time picker. On Clicking Submit send the three times to the second Activity and display the event plan. Write Java and XML Code for both the activities.

MainActivity.java

```java
package com.example.eventdetails;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TimePicker;

public class MainActivity extends AppCompatActivity {
        TimePicker timePicker;
        EditText et1,et2,et3;
        Button b1,b2,b3,submit;

        @Override
        protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        et1=findViewById(R.id.et1);
        et2=findViewById(R.id.et2);
        et3=findViewById(R.id.et3);
        timePicker=findViewById(R.id.TimePicker1);
        b1=findViewById(R.id.b1);
        b2=findViewById(R.id.b2);
        b3=findViewById(R.id.b3);
        submit=findViewById(R.id.submit);
        b1.setOnClickListener(new View.OnClickListener() {
        @Override
```

```java
        public void onClick(View v) {
        String
currentTime=+timePicker.getCurrentHour()+":"+timePicker.getCurrentMinute();
        et1.setText(currentTime);
        }
        });
        b2.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
        String
currentTime=timePicker.getCurrentHour()+":"+timePicker.getCurrentMinute();
        et2.setText(currentTime);
        }
        });
        b3.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
        String
currentTime=timePicker.getCurrentHour()+":"+timePicker.getCurrentMinute();
        et3.setText(currentTime);
        }
        });
        submit.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
        Intent i = new Intent(getApplicationContext(),display.class);
        Bundle bundle = new Bundle();
        bundle.putString("Event1",et1.getText().toString());
        bundle.putString("Event2",et2.getText().toString());
        bundle.putString("Event3",et3.getText().toString());
        i.putExtras(bundle);
        startActivity(i);
        }
        });
        }
}
```

activity_main.xml

```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"
```

```xml
tools:context=".MainActivity">

<Button
android:id="@+id/b3"
android:layout_width="90dp"
android:layout_height="47dp"
android:layout_marginStart="24dp"
android:layout_marginLeft="24dp"
android:text="Set"
app:layout_constraintStart_toEndOf="@+id/et3"
app:layout_constraintTop_toTopOf="@+id/et3" />

<EditText
android:id="@+id/et3"
android:layout_width="126dp"
android:layout_height="43dp"
android:layout_marginStart="28dp"
android:layout_marginLeft="28dp"
android:ems="10"
android:hint="set time"
android:inputType="textPersonName"
app:layout_constraintStart_toEndOf="@+id/t3"
app:layout_constraintTop_toTopOf="@+id/t3" />

<TextView
android:id="@+id/t3"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginStart="24dp"
android:layout_marginLeft="24dp"
android:text="Event3"
android:textSize="30sp"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/t2" />

<Button
android:id="@+id/b2"
android:layout_width="90dp"
android:layout_height="47dp"
android:layout_marginStart="24dp"
android:layout_marginLeft="24dp"
android:text="Set"
app:layout_constraintStart_toEndOf="@+id/et2"
app:layout_constraintTop_toTopOf="@+id/et2" />

<TextView
android:id="@+id/t2"
android:layout_width="wrap_content"
```

```xml
android:layout_height="wrap_content"
android:layout_marginStart="24dp"
android:layout_marginLeft="24dp"
android:text="Event2"
android:textSize="30sp"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/t1" />

<EditText
android:id="@+id/et2"
android:layout_width="126dp"
android:layout_height="43dp"
android:layout_marginStart="28dp"
android:layout_marginLeft="28dp"
android:ems="10"
android:hint="set time"
android:inputType="textPersonName"
app:layout_constraintStart_toEndOf="@+id/t2"
app:layout_constraintTop_toTopOf="@+id/t2" />

<Button
android:id="@+id/b1"
android:layout_width="90dp"
android:layout_height="47dp"
android:layout_marginStart="24dp"
android:layout_marginLeft="24dp"
android:text="Set"
app:layout_constraintStart_toEndOf="@+id/et1"
app:layout_constraintTop_toTopOf="@+id/et1" />

<TimePicker
android:id="@+id/TimePicker1"
android:layout_width="330dp"
android:layout_height="345dp"
android:layout_above="@+id/b1"
android:layout_centerHorizontal="true"
android:layout_marginStart="52dp"
android:layout_marginLeft="52dp"
android:layout_marginEnd="52dp"
android:layout_marginRight="52dp"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
tools:ignore="UnknownId" />

<TextView
android:id="@+id/t1"
android:layout_width="wrap_content"
```

```xml
            android:layout_height="wrap_content"
            android:layout_marginStart="24dp"
            android:layout_marginLeft="24dp"
            android:layout_marginTop="10dp"
            android:text="Event1"
            android:textSize="30sp"
            app:layout_constraintStart_toStartOf="parent"
            app:layout_constraintTop_toBottomOf="@+id/TimePicker1" />

        <EditText
            android:id="@+id/et1"
            android:layout_width="126dp"
            android:layout_height="43dp"
            android:layout_marginStart="28dp"
            android:layout_marginLeft="28dp"
            android:ems="10"
            android:hint="set time"
            android:inputType="textPersonName"
            app:layout_constraintStart_toEndOf="@+id/t1"
            app:layout_constraintTop_toTopOf="@+id/t1" />

        <Button
            android:id="@+id/submit"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_marginTop="6dp"
            android:text="submit"
            app:layout_constraintEnd_toEndOf="parent"
            app:layout_constraintStart_toStartOf="parent"
            app:layout_constraintTop_toBottomOf="@+id/et3" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

display.java

```java
package com.example.eventdetails;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.widget.TextView;

public class display extends AppCompatActivity {
        TextView t1,t2,t3;
        @Override
        protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_display);
```

```java
        t1=findViewById(R.id.textView5);
        t2=findViewById(R.id.textView6);
        t3=findViewById(R.id.textView7);
        Intent i = getIntent();
        Bundle bundle = i.getExtras();
        t1.setText(bundle.getString("Event1"));
        t2.setText(bundle.getString("Event2"));
        t3.setText(bundle.getString("Event3"));
        }
}
```

activity_display.xml

```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=".display">

        <TextView
        android:id="@+id/textView7"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="70dp"
        android:layout_marginLeft="70dp"
        android:textSize="30sp"
        app:layout_constraintStart_toEndOf="@+id/textView4"
        app:layout_constraintTop_toTopOf="@+id/textView4" />

        <TextView
        android:id="@+id/textView6"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="70dp"
        android:layout_marginLeft="70dp"
        android:textSize="30sp"
        app:layout_constraintStart_toEndOf="@+id/textView2"
        app:layout_constraintTop_toTopOf="@+id/textView2" />

        <TextView
        android:id="@+id/textView3"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="68dp"
```

```xml
        android:layout_marginLeft="68dp"
        android:layout_marginTop="72dp"
        android:text="Event 1"
        android:textSize="30sp"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/textView" />

    <TextView
        android:id="@+id/textView4"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="60dp"
        android:text="Event 3"
        android:textSize="30sp"
        app:layout_constraintStart_toStartOf="@+id/textView2"
        app:layout_constraintTop_toBottomOf="@+id/textView2" />

    <TextView
        android:id="@+id/textView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="54dp"
        android:text="Event Details"
        android:textSize="36sp"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <TextView
        android:id="@+id/textView2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="60dp"
        android:text="Event 2"
        android:textSize="30sp"
        app:layout_constraintStart_toStartOf="@+id/textView3"
        app:layout_constraintTop_toBottomOf="@+id/textView3" />

    <TextView
        android:id="@+id/textView5"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="70dp"
        android:layout_marginLeft="70dp"
        android:textSize="30sp"
        app:layout_constraintStart_toEndOf="@+id/textView3"
        app:layout_constraintTop_toTopOf="@+id/textView3" />
</androidx.constraintlayout.widget.ConstraintLayout>
```
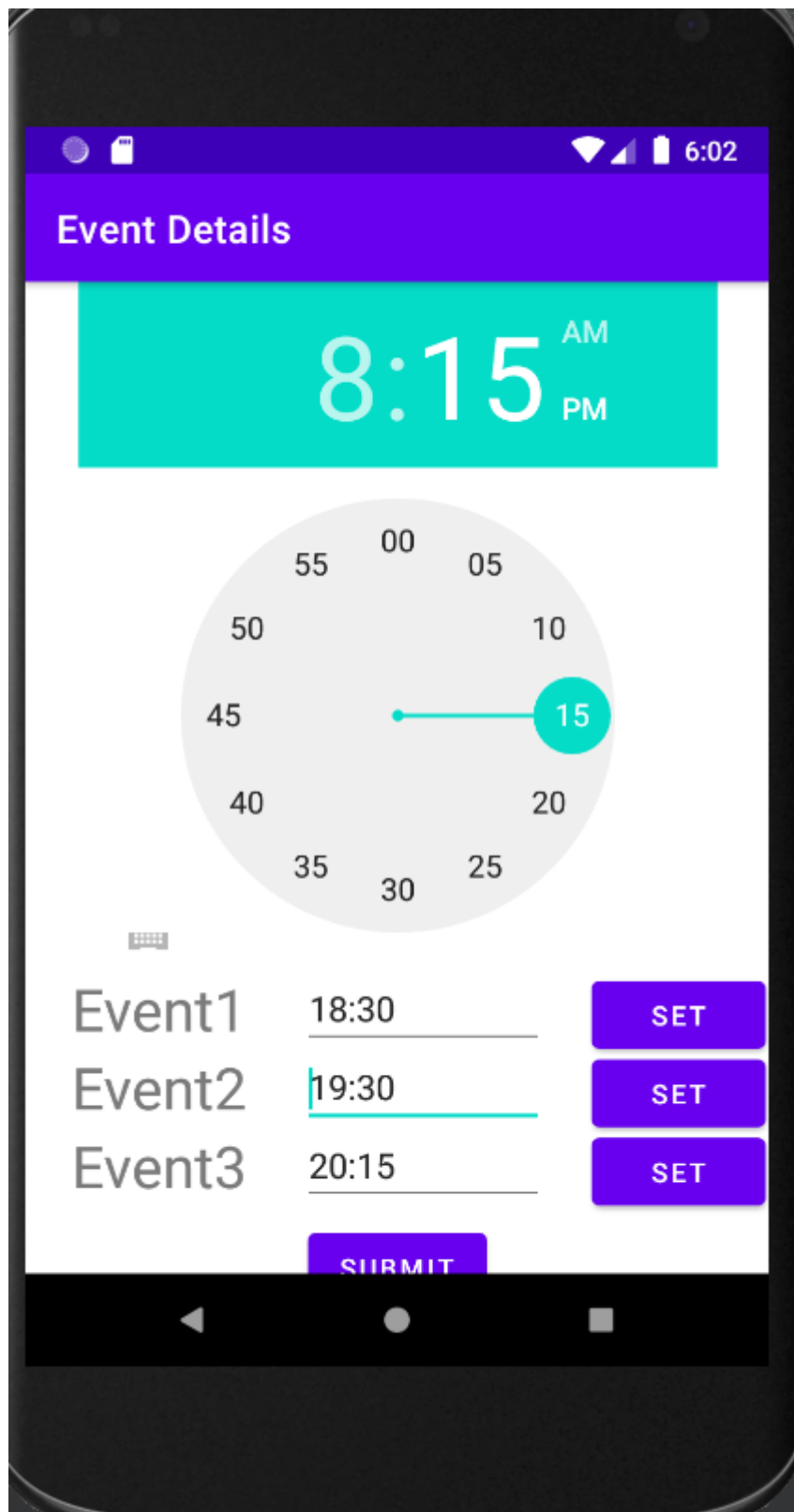
OUTPUT:

Event Details

Event 1	18:30
Event 2	19:30
Event 3	20:15