



Experiment 16: Movie Ticket Booking

1.Design (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"
    android:background="@drawable/img_1"
    tools:context=".MainActivity">

    <TextView
        android:id="@+id/textView"
        android:layout_width="224dp"
        android:layout_height="60dp"
        android:layout_marginTop="36dp"
        android:layout_marginBottom="30dp"
        android:fontFamily="monospace"
        android:gravity="center"
        android:text="Show Time Now"
        android:textColor="#3CCA32"
        android:textSize="20sp"
        android:textStyle="bold"
        app:layout_constraintBottom_toTopOf="@+id/textView2"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <Spinner
        android:id="@+id/spinner"
        android:layout_width="246dp"
        android:layout_height="54dp"
        android:layout_marginBottom="38dp"
        app:layout_constraintBottom_toTopOf="@+id/editTextText"
        app:layout_constraintEnd_toEndOf="@+id/textView2"
        app:layout_constraintStart_toStartOf="@+id/textView2"
        app:layout_constraintTop_toBottomOf="@+id/textView2"
```

```

        tools:ignore="TouchTargetSizeCheck" />

        <EditText
            android:id="@+id/editTextText"
            android:layout_width="189dp"
            android:layout_height="45dp"
            android:layout_marginBottom="434dp"
            android:ems="10"
            android:hint="Number of tickets:"
            android:inputType="text"
            android:textColorHint="@color/black"
            app:layout_constraintBottom_toBottomOf="parent"
            app:layout_constraintEnd_toEndOf="@+id/spinner"
            app:layout_constraintStart_toStartOf="@+id/spinner"
            app:layout_constraintTop_toBottomOf="@+id/spinner"
            tools:ignore="TouchTargetSizeCheck" />

        <Button
            android:id="@+id/button"
            android:layout_width="111dp"
            android:layout_height="43dp"
            android:layout_marginTop="56dp"
            android:backgroundTint="#EFE74B"
            android:text="SUBMIT"
            android:textColor="?attr/colorOnTertiaryFixedVariant"
            app:layout_constraintEnd_toEndOf="parent"
            app:layout_constraintStart_toStartOf="parent"
            app:layout_constraintTop_toBottomOf="@+id/editTextText" />

        <TextView
            android:id="@+id/textView2"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_marginBottom="42dp"
            android:foregroundGravity="left"
            android:gravity="left"
            android:text="Select movie"
            android:textColor="#A17402"
            android:textSize="16sp"
            android:textStyle="bold"
            app:layout_constraintBottom_toTopOf="@+id/spinner"
            app:layout_constraintEnd_toEndOf="parent"
            app:layout_constraintStart_toStartOf="parent"
            app:layout_constraintTop_toBottomOf="@+id/textView" />
    </androidx.constraintlayout.widget.ConstraintLayout>

```

2.JAVA File (MainActivity.java)

```

package com.example.movieticketb;

import androidx.appcompat.app.AppCompatActivity;

import android.content.SharedPreferences;
import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;

```

```

import android.widget.ArrayAdapter;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Spinner;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {
    Spinner spinner;
    EditText editTextText;
    Button button;
    int selectedPos;
    SharedPreferences sharedPreferences;
    String[] movieName={"Frozen","Tangled","Minions","Leo","A Man Called
    Otto","Wish","Hi Nanna"};

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        spinner=findViewById(R.id.spinner);
        editTextText=findViewById(R.id.editTextText);
        button=findViewById(R.id.button);
        ArrayAdapter adapter=new ArrayAdapter(this,
        android.R.layout.simple_spinner_dropdown_item,movieName);

        adapter.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_it
        em);
        spinner.setAdapter(adapter);
        spinner.setOnItemSelectedListener(new
        AdapterView.OnItemSelectedListener() {
            @Override
            public void onItemSelected(AdapterView<?> parent, View view,
            int position, long id) {
                selectedPos=position;
            }

            @Override
            public void onNothingSelected(AdapterView<?> parent) {

            }
        });
        button.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {

        sharedPreferences=getSharedPreferences("MyPreferences",MODE_PRIVATE);
                SharedPreferences.Editor editor=sharedPreferences.edit();
                editor.putInt("MovieName",selectedPos);

        editor.putInt("TicketsCount",Integer.parseInt(editTextText.getText().toStri
        ng()));
                editor.apply();
                Toast.makeText(MainActivity.this,"Saved
        successfully",Toast.LENGTH_LONG).show();
            }
        });
    }

    @Override
    protected void onResume() {
        super.onResume();
        SharedPreferences

```

```

sh=getSharedPreferences("MyPreferences",MODE_PRIVATE);
    int spos=sh.getInt("MovieName",0);
    int count=sh.getInt("TicketsCount",0);
    spinner.setSelection(spos);
    editTextText.setText(String.valueOf(count));

}
}

```

AndroidManifest.xml

```

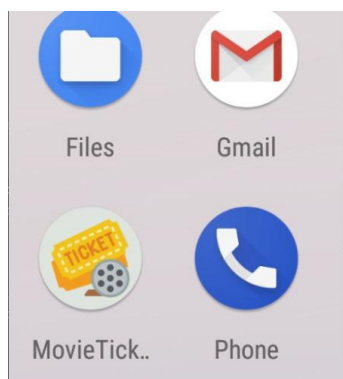
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools">

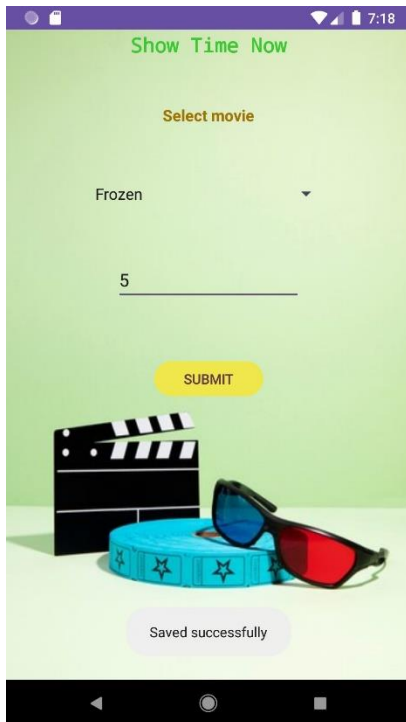
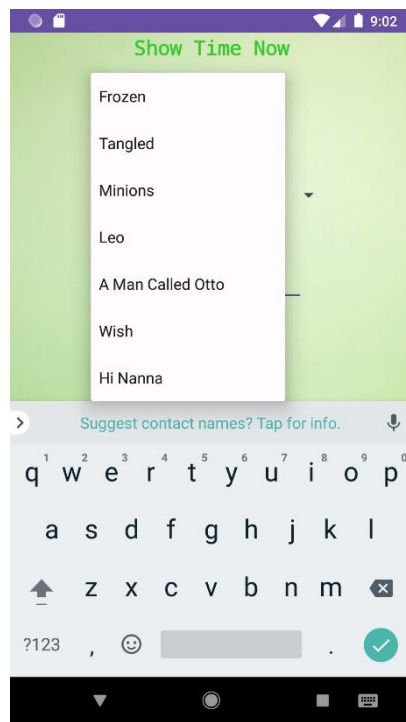
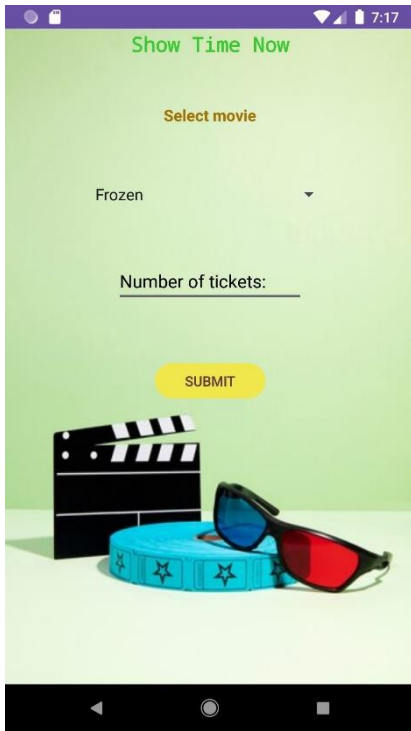
    <application
        android:allowBackup="true"
        android:dataExtractionRules="@xml/data_extraction_rules"
        android:fullBackupContent="@xml/backup_rules"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/Theme.MovieTicketB"
        tools:targetApi="31">
        <activity
            android:name=".MainActivity"
            android:exported="true"
            android:icon="@mipmap/ic_launcher">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER"
            />
            </intent-filter>
        </activity>
    </application>
</manifest>

```

3.Output in the emulator





→(Output after opening the app again)

