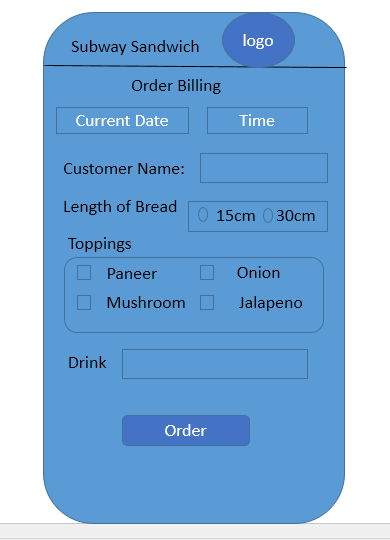
**18CA386-Android Application Development**

**Assignment 2**

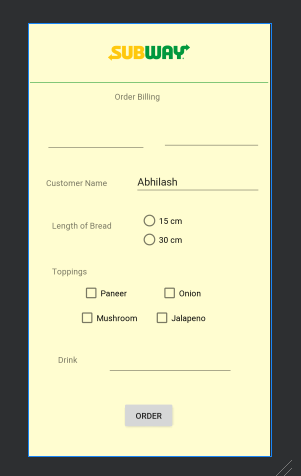
**S4MCA**

1. Create a simple order billing app as the blue print given below.



* Any layout can be used. Set a background image for the layout.
* Depending on the length, toppings and drink chosen for the sandwich, the total amount has to calculated and displayed.
* Rate for 15cm is 100rs and 30cm is 200rs. For Toppings paneer and mushroom extra 50rs each and for other toppings extra 30 each has to be paid.
* Drink: Three different drinks are available (Coke, Pepsi, Fanta).The text field has to be auto completed. Each drink has a rate of 40rs.
* Finally on clicking order button, the ordered item along with total rate has to be displayed using a message box/alert box.

**Design**



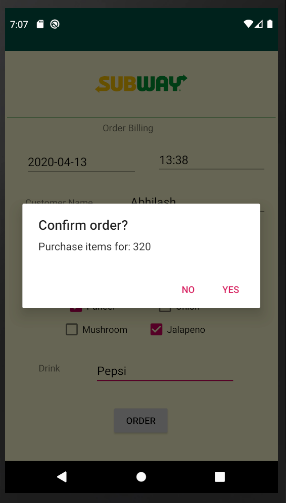
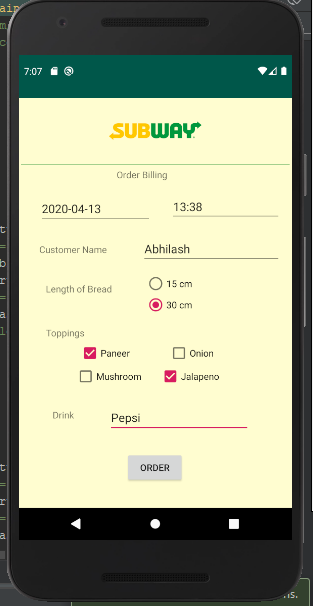
**Activity.xml**

<?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="#fffdd0"  
 tools:context=".MainActivity">  
  
 <ImageView  
 android:id="@+id/imageView"  
 android:layout\_width="215dp"  
 android:layout\_height="98dp"  
 android:layout\_marginEnd="80dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.844"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.001"  
 app:srcCompat="@drawable/subway\_logo" />  
  
 <View  
 android:id="@+id/view"  
 android:layout\_width="405dp"  
 android:layout\_height="1dp"  
 android:layout\_marginTop="100dp"  
 android:background="#FF4CAF50"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.0" />  
  
 <TextView  
 android:id="@+id/textView"  
 android:layout\_width="117dp"  
 android:layout\_height="49dp"  
 android:layout\_marginBottom="372dp"  
 android:text="Order Billing"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/imageView"  
 app:layout\_constraintVertical\_bias="0.075" />  
  
 <EditText  
 android:id="@+id/editText"  
 android:layout\_width="169dp"  
 android:layout\_height="46dp"  
 android:ems="10"  
 android:inputType="date"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.128"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.252" />  
  
 <EditText  
 android:id="@+id/editText2"  
 android:layout\_width="166dp"  
 android:layout\_height="42dp"  
 android:ems="10"  
 android:inputType="time"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.934"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.251" />  
  
 <TextView  
 android:id="@+id/textView2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Customer Name"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.1"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.365" />  
  
 <EditText  
 android:id="@+id/editText3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:inputType="textPersonName"  
 android:text="Abhilash"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.919"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.358" />  
  
 <TextView  
 android:id="@+id/textView3"  
 android:layout\_width="116dp"  
 android:layout\_height="34dp"  
 android:text="Length of Bread"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.138"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.476"  
  
 />  
  
 <RadioGroup  
 android:id="@+id/radioGroup"  
 android:layout\_width="184dp"  
 android:layout\_height="64dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.838"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.476">  
  
  
 <RadioButton  
 android:id="@+id/radioButton2"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="15 cm" />  
  
 <RadioButton  
 android:id="@+id/radioButton3"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="30 cm" />  
 </RadioGroup>  
  
 <TextView  
 android:id="@+id/textView4"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Toppings"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.116"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.575" />  
  
 <CheckBox  
 android:id="@+id/checkBox"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Paneer"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.273"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.629" />  
  
 <CheckBox  
 android:id="@+id/checkBox2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Onion"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.657"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.629" />  
  
 <CheckBox  
 android:id="@+id/checkBox3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Mushroom"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.273"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.689" />  
  
 <CheckBox  
 android:id="@+id/checkBox4"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Jalapeno"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.66"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.689" />  
  
 <TextView  
 android:id="@+id/textView5"  
 android:layout\_width="47dp"  
 android:layout\_height="36dp"  
 android:text="Drink"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.14"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.804" />  
  
 <AutoCompleteTextView  
 android:id="@+id/simpleAutoCompleteTextView"  
 android:layout\_width="213dp"  
 android:layout\_height="wrap\_content"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.681"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.802" />  
  
 <Button  
 android:id="@+id/button"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Order"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.498"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.935" />  
  
</androidx.constraintlayout.widget.ConstraintLayout>

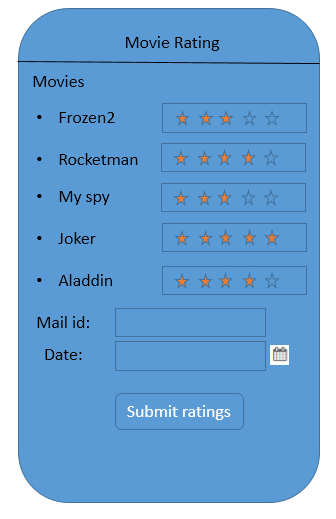
**Main Activity.java**

package com.example.orderbillingapp;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.app.AlertDialog;  
import android.content.DialogInterface;  
import android.icu.text.SimpleDateFormat;  
import android.icu.util.Calendar;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.ArrayAdapter;  
import android.widget.AutoCompleteTextView;  
import android.widget.Button;  
import android.widget.CheckBox;  
import android.widget.EditText;  
import android.widget.RadioButton;  
import android.widget.TextView;  
import android.widget.Toast;  
  
public class MainActivity extends AppCompatActivity {  
 Button simpleButton1;  
 EditText name;  
 RadioButton C15, C30;  
 CheckBox paneer,mushroom,onion,jalapeno ;  
 String[] drinksList = {"Pepsi", "Coke", "Fanta"};  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 final AutoCompleteTextView simpleAutoCompleteTextView = (AutoCompleteTextView) findViewById(R.id.*simpleAutoCompleteTextView*);  
 ArrayAdapter adapter = new ArrayAdapter(this, android.R.layout.*simple\_list\_item\_1*, drinksList);  
 simpleAutoCompleteTextView.setAdapter(adapter);  
 simpleAutoCompleteTextView.setThreshold(1);//start searching from 1 character  
 simpleAutoCompleteTextView.setAdapter(adapter);  
  
 Calendar c = Calendar.*getInstance*();  
 SimpleDateFormat df = new SimpleDateFormat("yyyy-MM-dd ");  
 String formattedDate = df.format(c.getTime());  
 SimpleDateFormat df2 = new SimpleDateFormat("HH:mm");  
 String formattedDate2 = df2.format(c.getTime());  
  
 EditText time = (EditText)findViewById(R.id.*editText*);  
 time.setText(formattedDate);  
 EditText date = (EditText)findViewById(R.id.*editText2*);  
 date.setText(formattedDate2);  
  
  
  
 simpleButton1 = (Button) findViewById(R.id.*button*);  
 simpleButton1.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 int cost =0;  
 name = (EditText) findViewById(R.id.*editText3*);  
 String custName = name.getText().toString();  
 C15 = (RadioButton) findViewById(R.id.*radioButton2*);  
 C30 = (RadioButton) findViewById(R.id.*radioButton3*);  
 paneer = (CheckBox) findViewById(R.id.*checkBox*);  
 mushroom = (CheckBox) findViewById(R.id.*checkBox3*);  
 onion= (CheckBox) findViewById(R.id.*checkBox2*);  
 jalapeno = (CheckBox) findViewById(R.id.*checkBox4*);  
  
 boolean large = false;  
 if (C30.isChecked()) {  
 large = true;  
 cost +=200;  
 } else{  
 cost += 100;  
 }  
  
 if(paneer.isChecked())  
 cost+=50;  
 if(mushroom.isChecked())  
 cost+=50;  
 if(onion.isChecked())  
 cost+=30;  
 if(jalapeno.isChecked())  
 cost+=30;  
  
 String drink = simpleAutoCompleteTextView.getText().toString();  
 if(drink.equals("Pepsi")||drink.equals("Fanta")||drink.equals("Cola"))  
 cost+=40;  
 AlertDialog.Builder alertDialogBuilder = new AlertDialog.Builder(MainActivity.this);  
 alertDialogBuilder.setTitle("Confirm order? ");  
 alertDialogBuilder.setMessage("Purchase items for: " + Integer.*toString*(cost));  
 alertDialogBuilder.setCancelable(false);  
 alertDialogBuilder.setPositiveButton("yes", new DialogInterface.OnClickListener() {  
  
 @Override  
 public void onClick(DialogInterface arg0, int arg1) {  
 finish();  
 }  
 });  
 alertDialogBuilder.setNegativeButton("No", new DialogInterface.OnClickListener() {  
 @Override  
 public void onClick(DialogInterface dialog, int which) {  
 Toast.*makeText*(MainActivity.this,"You clicked over No",Toast.*LENGTH\_SHORT*).show();  
 }  
 });  
 AlertDialog dialog = alertDialogBuilder.create();  
 dialog.show();  
 Toast.*makeText*(getApplicationContext(),Integer.*toString*(cost) , Toast.*LENGTH\_LONG*).show();//display the text of button1  
 }  
 });  
 }  
}

**Output**

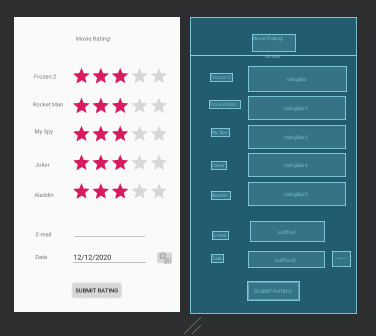


1. Implement a movie rating app. Blue print is given below.



* Set the default ratings for each rating bar to 3.
* Once the rating is given, enter the user mail id, choose a date and submit ratings.
* On submitting, display the average rating and best rated movie in a message box/alert box.

**Design**



**Acitivity\_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/textView8"  
 android:layout\_width="105dp"  
 android:layout\_height="43dp"  
 android:text="Movie Rating!"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.501"  
 app:layout\_constraintLeft\_toLeftOf="parent"  
 app:layout\_constraintRight\_toRightOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.063" />  
  
 <RatingBar  
 android:id="@+id/ratingBar"  
 android:layout\_width="243dp"  
 android:layout\_height="61dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.851"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.182"  
 android:rating="3" />  
  
 <View  
 android:id="@+id/divider"  
 android:layout\_width="409dp"  
 android:layout\_height="1dp"  
 android:background="?android:attr/listDivider"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.13" />  
  
 <RatingBar  
 android:id="@+id/ratingBar2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginBottom="72dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.836"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.325"  
 android:rating="3" />  
  
 <RatingBar  
 android:id="@+id/ratingBar3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.836"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.394"  
 android:rating="3" />  
  
 <RatingBar  
 android:id="@+id/ratingBar4"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.836"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 android:rating="3" />  
  
 <RatingBar  
 android:id="@+id/ratingBar5"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="116dp"  
 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="0.605"  
 android:rating="3" />  
  
 <TextView  
 android:id="@+id/textView"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Frozen 2"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.139"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.193" />  
  
 <TextView  
 android:id="@+id/textView2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Rocket Man"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.139"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.29" />  
  
 <TextView  
 android:id="@+id/textView3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="My Spy"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.139"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.384" />  
  
 <TextView  
 android:id="@+id/textView4"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Joker"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.139"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <TextView  
 android:id="@+id/textView5"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Aladdin"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.139"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.605" />  
  
 <EditText  
 android:id="@+id/editText"  
 android:layout\_width="183dp"  
 android:layout\_height="49dp"  
 android:ems="10"  
 android:inputType="textEmailAddress"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.641"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.737" />  
  
 <TextView  
 android:id="@+id/textView6"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="E-mail"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.144"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.742" />  
  
 <TextView  
 android:id="@+id/textView7"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Date"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.139"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.821" />  
  
 <ImageButton  
 android:id="@+id/imageButton"  
 android:layout\_width="44dp"  
 android:layout\_height="38dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.956"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.834"  
 app:srcCompat="@android:drawable/ic\_menu\_month" />  
  
 <EditText  
 android:id="@+id/editText2"  
 android:layout\_width="188dp"  
 android:layout\_height="40dp"  
 android:ems="10"  
 android:inputType="textPersonName"  
 android:text="12/12/2020"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.641"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.836" />  
  
 <Button  
 android:id="@+id/button"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Submit Rating"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.498"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.956" />  
  
</androidx.constraintlayout.widget.ConstraintLayout>

**MainActivity.java**

package com.example.movierating;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.app.AlertDialog;  
import android.app.DatePickerDialog;  
import android.app.Dialog;  
import android.content.DialogInterface;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.DatePicker;  
import android.widget.EditText;  
import android.widget.ImageButton;  
import android.widget.RatingBar;  
import android.widget.Toast;  
  
public class MainActivity extends AppCompatActivity {  
 Button simpleButton1;  
 int day, month, year;  
 EditText ed;  
 @Override  
 @Deprecated  
 protected Dialog onCreateDialog(int id) {  
 return new DatePickerDialog(this, datePickerListener, year, month, day);  
 }  
  
 private DatePickerDialog.OnDateSetListener datePickerListener = new DatePickerDialog.OnDateSetListener() {  
 public void onDateSet(DatePicker view, int selectedYear,  
 int selectedMonth, int selectedDay) {  
 day = selectedDay;  
 month = selectedMonth;  
 year = selectedYear;  
 ed = (EditText) findViewById(R.id.*editText2*);  
 ed.setText(selectedDay + " / " + (selectedMonth + 1) + " / "  
 + selectedYear);  
 }  
 };  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 simpleButton1 = (Button) findViewById(R.id.*button*);  
  
 ImageButton simpleImageButtonHome = (ImageButton)findViewById(R.id.*imageButton*);  
 simpleImageButtonHome.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 showDialog(0);  
 }  
 });  
  
 simpleButton1.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 final RatingBar frozen = (RatingBar) findViewById(R.id.*ratingBar*);  
 final RatingBar rocketman = (RatingBar) findViewById(R.id.*ratingBar2*);  
 final RatingBar myspy = (RatingBar) findViewById(R.id.*ratingBar3*);  
 final RatingBar joker = (RatingBar) findViewById(R.id.*ratingBar4*);  
 final RatingBar aladdin = (RatingBar) findViewById(R.id.*ratingBar5*);  
  
 float frozen\_rating = frozen.getRating();  
 float rocketman\_rating = rocketman.getRating();  
 float myspy\_rating = myspy.getRating();  
 float joker\_rating = joker.getRating();  
 float aladdin\_rating = aladdin.getRating();  
  
 float avg\_rating = (frozen\_rating + rocketman\_rating +myspy\_rating +joker\_rating + aladdin\_rating)/5;  
 String best\_rated = "None";  
 float best\_rating=0;  
  
 if (frozen\_rating > best\_rating){  
 best\_rating = frozen\_rating;  
 best\_rated = "Frozen";  
 }  
 if (rocketman\_rating > best\_rating){  
 best\_rating = rocketman\_rating;  
 best\_rated = "Rocket Man";  
 }  
 if (myspy\_rating > best\_rating){  
 best\_rating = myspy\_rating;  
 best\_rated = "My Spy";  
 }  
 if (joker\_rating > best\_rating){  
 best\_rating = joker\_rating;  
 best\_rated = "Joker";  
 }  
 if (aladdin\_rating > best\_rating){  
 best\_rating = rocketman\_rating;  
 best\_rated = "Aladdin";  
 }  
 AlertDialog.Builder alertDialogBuilder = new AlertDialog.Builder(MainActivity.this);  
 alertDialogBuilder.setTitle("Confirm Rating? ");  
 alertDialogBuilder.setMessage("Best Rated: " + best\_rated+"("+ Float.*toString*(best\_rating)+")\nAverage Rating: "+Float.*toString*(avg\_rating));  
 alertDialogBuilder.setCancelable(false);  
 alertDialogBuilder.setPositiveButton("yes", new DialogInterface.OnClickListener() {  
  
 @Override  
 public void onClick(DialogInterface arg0, int arg1) {  
 finish();  
 }  
 });  
 alertDialogBuilder.setNegativeButton("No", new DialogInterface.OnClickListener() {  
 @Override  
 public void onClick(DialogInterface dialog, int which) {  
 Toast.*makeText*(MainActivity.this,"You clicked over No",Toast.*LENGTH\_SHORT*).show();  
 }  
 });  
 AlertDialog dialog = alertDialogBuilder.create();  
 dialog.show();  
  
 Toast.*makeText*(getApplicationContext(), "Simple Button 1", Toast.*LENGTH\_LONG*).show();//display the text of button1  
 }  
 });  
  
 }  
}

**Output**

