**COS30017 – Software Development for Mobile Devices**

**Formative Assignment 3**

### **Task 1**

Screenshots

A screenshot of a cell phone

Description automatically generatedA screenshot of a cell phone

Description automatically generatedA screenshot of a cell phone

Description automatically generated

Java Code for Main Activity

package com.example.movieticketreservation;  
  
import androidx.annotation.Nullable;  
import androidx.appcompat.app.AppCompatActivity;  
import androidx.cardview.widget.CardView;  
import androidx.recyclerview.widget.DividerItemDecoration;  
import androidx.recyclerview.widget.LinearLayoutManager;  
import androidx.recyclerview.widget.RecyclerView;  
  
import android.content.Intent;  
import android.media.Image;  
import android.os.Bundle;  
import android.util.Log;  
import android.view.View;  
import android.widget.ImageView;  
import android.widget.TextView;  
  
import java.text.SimpleDateFormat;  
import java.util.ArrayList;  
  
public class MainActivity extends AppCompatActivity {  
 private RecyclerView recyclerView;  
 private ArrayList<Movie> movieList;  
 private RecyclerViewAdapter adapter;  
  
  
 //summary  
 private CardView cardView;  
 private TextView ticket\_adult\_num,ticket\_kid\_num,title,date,time;  
 private ImageView imageView;  
 private Movie movie;  
 private Reservation reservation;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 movieList=Movie.*createMovieList*(this);  
 initRecycler();  
 initCardView();  
 }  
  
 private void initRecycler(){  
 recyclerView=findViewById(R.id.*recyclerView*);  
 recyclerView.setLayoutManager(new LinearLayoutManager(this));  
 DividerItemDecoration divide=new DividerItemDecoration(this,DividerItemDecoration.*VERTICAL*);  
 recyclerView.addItemDecoration(divide);  
 adapter=new RecyclerViewAdapter(movieList);  
 recyclerView.setAdapter(adapter);  
 }  
 private void initCardView(){  
 cardView=findViewById(R.id.*cardView*);  
 ticket\_adult\_num=findViewById(R.id.*textView\_adult\_tickets\_num*);  
 ticket\_kid\_num=findViewById(R.id.*textView\_child\_tickets\_num*);  
 title=findViewById(R.id.*title*);  
 date=findViewById(R.id.*textView\_date*);  
 time=findViewById(R.id.*textView\_time*);  
 imageView=findViewById(R.id.*imageView*);  
 }  
  
 @Override  
 protected void onActivityResult(int requestCode, int resultCode, @Nullable Intent data) {  
 super.onActivityResult(requestCode, resultCode, data);  
 if(requestCode==999 && resultCode==*RESULT\_OK*){  
 cardView.setVisibility(View.*VISIBLE*);  
 recyclerView.setVisibility(View.*GONE*);  
 //movie=data.getParcelableExtra("reservation");  
 reservation=data.getParcelableExtra("reservation");  
 int resID=getResources().getIdentifier(reservation.getImageName(),"drawable",getPackageName());  
 imageView.setImageResource(resID);  
 title.setText(reservation.getTitle());  
 date.setText("Date: "+reservation.getSelected\_date());  
 time.setText("Time: "+reservation.getSelected\_time());  
 ticket\_adult\_num.setText(reservation.getAdults());  
 ticket\_kid\_num.setText(reservation.getChild());  
 }  
 }  
}

Java Code for SecondActivity

package com.example.movieticketreservation;  
  
import androidx.appcompat.app.AppCompatActivity;  
import androidx.recyclerview.widget.DividerItemDecoration;  
import androidx.recyclerview.widget.LinearLayoutManager;  
import androidx.recyclerview.widget.RecyclerView;  
  
import android.app.DatePickerDialog;  
import android.content.Intent;  
import android.database.DatabaseErrorHandler;  
import android.os.Bundle;  
import android.util.Log;  
import android.view.View;  
import android.widget.AdapterView;  
import android.widget.ArrayAdapter;  
import android.widget.Button;  
import android.widget.DatePicker;  
import android.widget.EditText;  
import android.widget.ImageView;  
import android.widget.Spinner;  
import android.widget.TextView;  
import android.widget.Toast;  
  
import java.text.DateFormat;  
import java.text.ParseException;  
import java.text.SimpleDateFormat;  
import java.util.ArrayList;  
import java.util.Calendar;  
import java.util.Date;  
  
public class SecondActivity extends AppCompatActivity implements DatePickerDialog.OnDateSetListener {  
 private RecyclerView recyclerView;  
 private ArrayList<Movie> movieList; //add selected Movie into this ArrayList after extraction from bundle  
 private RecyclerViewAdapter adapter;  
 private Movie movie;  
  
 //calender  
 private TextView textView\_calendar;  
 private Date currentDate;  
 private Date selectedDate;//to be packaged  
  
 //spinner  
 private Spinner spinner;  
 private ArrayAdapter<String> timeAdapter;  
 private String selectedTime="";//to be packaged  
  
 //tickets  
 private TextView adult,kid;  
 private ImageView adult\_up,adult\_down,kid\_up,kid\_down;  
 private int ticket\_adult=0;//to be packaged  
 private int ticket\_kid=0;//to be packaged  
  
 //book  
 private Button book;  
  
 //reservation  
 Reservation reservation; //to be packaged  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_second*);  
 movieList=new ArrayList<>();  
 if(getIntent().hasExtra("selected\_movie")){  
 movie=getIntent().getParcelableExtra("selected\_movie");  
 movieList.add(movie);  
 }  
 reservation=new Reservation(movie);  
 initRecycler();  
 initCalendar();  
 initSpinner();  
 initButtons();  
  
 }  
 private int calcDays(){  
 long curDate=currentDate.getTime();  
 long selDate=selectedDate.getTime();  
 int result=(int)((selDate-curDate)/(24\*60\*60\*1000))+1;  
 return result;  
 }  
 private void initButtons(){  
 adult=findViewById(R.id.*textView\_numAdult*);  
 kid=findViewById(R.id.*textView\_numKid*);  
 adult.setText(String.*valueOf*(ticket\_adult));  
 kid.setText(String.*valueOf*(ticket\_kid));  
  
 adult\_up=findViewById(R.id.*imageView\_adult\_up*);  
 adult\_down=findViewById(R.id.*imageView\_adult\_down*);  
 adult\_up.setOnClickListener(new View.OnClickListener(){  
 @Override  
 public void onClick(View v) {  
 ticket\_adult++;  
 adult.setText(String.*valueOf*(ticket\_adult));  
 }  
 });  
 adult\_down.setOnClickListener(new View.OnClickListener(){  
 @Override  
 public void onClick(View v) {  
 if(ticket\_adult<=0){  
 ticket\_adult=0;  
 adult.setText(String.*valueOf*(ticket\_adult));  
 }else{  
 ticket\_adult--;  
 adult.setText(String.*valueOf*(ticket\_adult));  
 }  
 }  
 });  
 kid\_up=findViewById(R.id.*imageView\_kid\_up*);  
 kid\_down=findViewById(R.id.*imageView\_kid\_down*);  
 kid\_up.setOnClickListener(new View.OnClickListener(){  
 @Override  
 public void onClick(View v) {  
 ticket\_kid++;  
 kid.setText(String.*valueOf*(ticket\_kid));  
 }  
 });  
 kid\_down.setOnClickListener(new View.OnClickListener(){  
 @Override  
 public void onClick(View v) {  
 if(ticket\_kid<=0){  
 ticket\_kid=0;  
 kid.setText(String.*valueOf*(ticket\_kid));  
 }else {  
 ticket\_kid--;  
 kid.setText(String.*valueOf*(ticket\_kid));  
 }  
 }  
 });  
  
 book=findViewById(R.id.*button\_book*);  
 book.setOnClickListener(new View.OnClickListener(){  
 @Override  
 public void onClick(View v) {  
 int days=calcDays();  
 if(days>=4 || days<=0){  
 Toast.*makeText*(getApplicationContext(),  
 "Invalid selected data, please reselect"  
 ,Toast.*LENGTH\_SHORT*).show();  
 }else if(ticket\_kid==0 && ticket\_adult==0){  
 Toast.*makeText*(getApplicationContext(),"You must purchase a ticket to book"  
 ,Toast.*LENGTH\_SHORT*).show();  
 }  
 else {  
 SimpleDateFormat sdf = new SimpleDateFormat("d MMMM yyyy");  
 String temp = sdf.format(selectedDate);  
 reservation.setSelected\_date(temp);  
 reservation.setSelected\_time(selectedTime);  
 reservation.setAdults(String.*valueOf*(ticket\_adult));  
 reservation.setChild(String.*valueOf*(ticket\_kid));  
 Intent intent = new Intent(getApplicationContext(), MainActivity.class);  
 intent.putExtra("reservation", reservation);  
 setResult(*RESULT\_OK*, intent);  
 finish();  
 }  
 }  
 });  
 }  
 private void initSpinner(){  
 spinner=findViewById(R.id.*spinner*);  
 String[] time=movieList.get(0).getShowtime();  
 timeAdapter=new ArrayAdapter<String>(this,android.R.layout.*simple\_spinner\_item* ,time);  
 timeAdapter.setDropDownViewResource(android.R.layout.*simple\_spinner\_dropdown\_item*);  
 spinner.setAdapter(timeAdapter);  
 spinner.setOnItemSelectedListener(new AdapterView.OnItemSelectedListener() {  
 @Override  
 public void onItemSelected(AdapterView<?> parent, View view, int position, long id) {  
 selectedTime = spinner.getSelectedItem().toString();  
 }  
  
 @Override  
 public void onNothingSelected(AdapterView<?> parent) {  
 selectedTime = movieList.get(0).getShowtime()[0];  
 }  
 });  
 }  
 private void initCalendar() {  
 Calendar calendar=Calendar.*getInstance*();  
 currentDate=calendar.getTime();  
 textView\_calendar=findViewById(R.id.*editText\_date*);  
  
 textView\_calendar.setOnClickListener(new View.OnClickListener(){  
 @Override  
 public void onClick(View v) {  
 showDatePickerDialog();  
 }  
 });  
  
 }  
 private void showDatePickerDialog(){  
 DatePickerDialog datePickerDialog=new DatePickerDialog(this,this,  
 Calendar.*getInstance*().get(Calendar.*YEAR*),  
 Calendar.*getInstance*().get(Calendar.*MONTH*),  
 Calendar.*getInstance*().get(Calendar.*DAY\_OF\_MONTH*)  
 );  
 datePickerDialog.show();  
 }  
  
 @Override  
 public void onDateSet(DatePicker view, int year, int month, int dayOfMonth) {  
 String temp=dayOfMonth+" "+(month+1)+" "+year;  
 SimpleDateFormat sdf=new SimpleDateFormat("d M yyyy");  
 try {  
 selectedDate=sdf.parse(temp);  
 sdf=new SimpleDateFormat("d MMMM yyyy");  
 sdf.format(selectedDate);  
 textView\_calendar.setText(sdf.format(selectedDate));  
 } catch (ParseException e) {  
 e.printStackTrace();  
 }  
 }  
  
 private void initRecycler() {  
 recyclerView=findViewById(R.id.*second\_recycler\_view*);  
 recyclerView.setLayoutManager(new LinearLayoutManager(this));  
 adapter=new RecyclerViewAdapter(movieList);  
 recyclerView.setAdapter(adapter);  
 }  
  
  
  
  
}

Java Code for RecyclerViewAdapter

package com.example.movieticketreservation;  
  
import android.app.Activity;  
import android.content.Context;  
import android.content.Intent;  
import android.util.Log;  
import android.view.LayoutInflater;  
import android.view.View;  
import android.view.ViewGroup;  
import android.widget.ImageView;  
import android.widget.TextView;  
import android.widget.Toast;  
  
import androidx.annotation.NonNull;  
import androidx.recyclerview.widget.RecyclerView;  
  
import java.util.ArrayList;  
  
public class RecyclerViewAdapter extends RecyclerView.Adapter<RecyclerViewAdapter.ViewHolder>{  
 private ArrayList<Movie> movieList;  
  
 public RecyclerViewAdapter(ArrayList<Movie> movieList) {  
 this.movieList = movieList;  
 }  
  
 @NonNull  
 @Override  
 public ViewHolder onCreateViewHolder(@NonNull ViewGroup parent, int viewType) {  
 View view= LayoutInflater.*from*(parent.getContext()).inflate(R.layout.*movie\_layout*,  
 parent,false);  
 return new ViewHolder(view);  
 }  
  
 @Override  
 public void onBindViewHolder(@NonNull ViewHolder holder, int position) {  
 Movie movie=movieList.get(position);  
 int resID=holder.imageView.getResources().getIdentifier(movie.getImageName(),  
 "drawable",holder.imageView.getContext().getPackageName());  
 holder.imageView.setImageResource(resID);  
 holder.title.setText(movie.getTitle());  
 holder.genre.setText(movie.getGenre());  
 holder.duration.setText(movie.getDuration());  
 }  
  
 @Override  
 public int getItemCount() {  
 return movieList.size();  
 }  
  
 public class ViewHolder extends RecyclerView.ViewHolder implements View.OnClickListener{  
 public ImageView imageView;  
 public TextView title,genre,duration;  
 public ViewHolder(@NonNull View itemView) {  
 super(itemView);  
 imageView=itemView.findViewById(R.id.*imageView*);  
 title=itemView.findViewById(R.id.*textView\_title*);  
 genre=itemView.findViewById(R.id.*textView\_genre*);  
 duration=itemView.findViewById(R.id.*textView\_duration*);  
 itemView.setOnClickListener(this);  
 }  
  
 @Override  
 public void onClick(View v) {  
 int pos=getAdapterPosition();  
 Intent intent=new Intent(v.getContext(),SecondActivity.class);  
 intent.putExtra("selected\_movie",movieList.get(pos));  
 ((Activity)v.getContext()).startActivityForResult(intent,999);  
 }  
 }  
}

Java Code for Movie Class

package com.example.movieticketreservation;  
  
import android.content.Context;  
import android.os.Parcel;  
import android.os.Parcelable;  
  
import java.util.ArrayList;  
  
public class Movie implements Parcelable {  
 private String title;  
 private String genre;  
 private String[] showtime;  
 private String duration;  
 private String imageName;  
   
  
  
  
 public Movie(String title, String genre, String[] showtime, String duration,String imageName) {  
 this.title = title;  
 this.genre = genre;  
 this.showtime = showtime;  
 this.duration = duration;  
 this.imageName=imageName;  
   
 }  
  
 protected Movie(Parcel in) {  
 title = in.readString();  
 genre = in.readString();  
 showtime = in.createStringArray();  
 duration = in.readString();  
 imageName=in.readString();  
   
 }  
  
 public static final Creator<Movie> *CREATOR* = new Creator<Movie>() {  
 @Override  
 public Movie createFromParcel(Parcel in) {  
 return new Movie(in);  
 }  
  
 @Override  
 public Movie[] newArray(int size) {  
 return new Movie[size];  
 }  
 };  
  
 public String getDuration() {  
 return duration;  
 }  
  
 public void setDuration(String duration) {  
 this.duration = duration;  
 }  
  
 public String getTitle() {  
 return title;  
 }  
  
 public void setTitle(String title) {  
 this.title = title;  
 }  
  
 public String getGenre() {  
 return genre;  
 }  
  
 public void setGenre(String genre) {  
 this.genre = genre;  
 }  
  
 public String[] getShowtime() {  
 return showtime;  
 }  
  
 public void setShowtime(String[] showtime) {  
 this.showtime = showtime;  
 }  
 public String getImageName() {  
 return imageName;  
 }  
  
 public void setImageName(String imageName) {  
 this.imageName = imageName;  
 }  
   
  
 public static ArrayList<Movie> createMovieList(Context context){  
 ArrayList<Movie> movieList=new ArrayList<>();  
  
 movieList.add(new Movie("Avengers : Endgame","Action,Adventure,Sci-fi",context.getResources().getStringArray(R.array.*avengers*),"3 hours","avengers"));  
 movieList.add(new Movie("47 Meters Down","Adventure,Drama,Horror",context.getResources().getStringArray(R.array.*meters*),"2 hours 30 minutes","meters"));  
 movieList.add(new Movie("Spiderman : Far From Home","Action,Adventure,Sci-fi",context.getResources().getStringArray(R.array.*spiderman*),"2 hours 15 minutes","spiderman"));  
 movieList.add(new Movie("Lion King","Animation,Adventure,Drama",context.getResources().getStringArray(R.array.*lionking*),"1 hour 45 minutes","lion\_king"));  
 movieList.add(new Movie("Fast and Furious : Hobbs and Shaw","Action,Adventure",context.getResources().getStringArray(R.array.*hobbs*),"2 hours","hobbs"));  
 return movieList;  
 }  
  
 @Override  
 public int describeContents() {  
 return 0;  
 }  
  
 @Override  
 public void writeToParcel(Parcel dest, int flags) {  
 dest.writeString(title);  
 dest.writeString(genre);  
 dest.writeStringArray(showtime);  
 dest.writeString(duration);  
 dest.writeString(imageName);  
 }  
}

Java Code for Reservation Class

package com.example.movieticketreservation;  
  
import android.os.Parcel;  
import android.os.Parcelable;  
  
public class Reservation implements Parcelable {  
 private String title;  
 private String imageName;  
 private String selected\_time;  
 private String selected\_date;  
 private String adults;  
 private String child;  
  
 protected Reservation(Parcel in) {  
 title = in.readString();  
 imageName = in.readString();  
 selected\_time = in.readString();  
 selected\_date = in.readString();  
 adults = in.readString();  
 child = in.readString();  
 }  
  
 public static final Creator<Reservation> *CREATOR* = new Creator<Reservation>() {  
 @Override  
 public Reservation createFromParcel(Parcel in) {  
 return new Reservation(in);  
 }  
  
 @Override  
 public Reservation[] newArray(int size) {  
 return new Reservation[size];  
 }  
 };  
  
 public String getTitle() {  
 return title;  
 }  
  
 public void setTitle(String title) {  
 this.title = title;  
 }  
  
 public String getImageName() {  
 return imageName;  
 }  
  
 public void setImageName(String imageName) {  
 this.imageName = imageName;  
 }  
  
 public String getSelected\_time() {  
 return selected\_time;  
 }  
  
 public void setSelected\_time(String selected\_time) {  
 this.selected\_time = selected\_time;  
 }  
  
 public String getSelected\_date() {  
 return selected\_date;  
 }  
  
 public void setSelected\_date(String selected\_date) {  
 this.selected\_date = selected\_date;  
 }  
  
 public String getAdults() {  
 return adults;  
 }  
  
 public void setAdults(String adults) {  
 this.adults = adults;  
 }  
  
 public String getChild() {  
 return child;  
 }  
  
 public void setChild(String child) {  
 this.child = child;  
 }  
  
  
  
 public Reservation(Movie movie) {  
 this.title = movie.getTitle();  
 this.imageName = movie.getImageName();  
 this.selected\_time = "";  
 this.selected\_date = "";  
 this.adults = "";  
 this.child = "";  
 }  
  
 @Override  
 public int describeContents() {  
 return 0;  
 }  
  
 @Override  
 public void writeToParcel(Parcel dest, int flags) {  
 dest.writeString(title);  
 dest.writeString(imageName);  
 dest.writeString(selected\_time);  
 dest.writeString(selected\_date);  
 dest.writeString(adults);  
 dest.writeString(child);  
 }  
}

### **Task 2**

XML for Main

<?xml version="1.0" encoding="utf-8"?>  
<LinearLayout  
 android:id="@+id/layout"  
 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:orientation="vertical"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".MainActivity"/>

XML for Fragment One

<?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">  
  
 <ImageView  
 android:id="@+id/title"  
 android:layout\_width="358dp"  
 android:layout\_height="71dp"  
 android:contentDescription="@string/titleImage"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:srcCompat="@drawable/title" />  
  
 <ImageView  
 android:id="@+id/burger\_main"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:adjustViewBounds="true"  
 android:contentDescription="@string/burgerMainImage"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@id/title"  
 app:srcCompat="@drawable/burger\_main" />  
  
 <ImageView  
 android:id="@+id/ingredient"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:contentDescription="@string/ingredientImage"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@id/burger\_main"  
 app:srcCompat="@drawable/ingredient" />  
  
 <androidx.constraintlayout.widget.Guideline  
 android:id="@+id/guideline"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:orientation="vertical"  
 app:layout\_constraintGuide\_begin="20dp" />  
  
 <ImageView  
 android:id="@+id/meat"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:contentDescription="@string/meatImage"  
 app:layout\_constraintStart\_toEndOf="@id/guideline"  
 app:layout\_constraintTop\_toBottomOf="@id/ingredient"  
 app:srcCompat="@drawable/meat" />  
  
 <TextView  
 android:id="@+id/protein"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="5dp"  
 android:layout\_marginTop="8dp"  
 android:text="@string/protein"  
 android:textColor="@color/font"  
 android:textSize="18sp"  
 app:layout\_constraintStart\_toEndOf="@id/meat"  
 app:layout\_constraintTop\_toTopOf="@id/meat" />  
  
 <LinearLayout  
 android:id="@+id/hori1"  
 android:layout\_width="260dp"  
 android:layout\_height="1dp"  
 android:layout\_marginStart="3dp"  
 android:layout\_marginTop="13dp"  
 android:background="@color/primary"  
 android:orientation="horizontal"  
 app:layout\_constraintStart\_toEndOf="@id/protein"  
 app:layout\_constraintTop\_toTopOf="@id/protein" />  
  
 <RadioGroup  
 android:id="@+id/radioGroup"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:orientation="horizontal"  
 app:layout\_constraintStart\_toEndOf="@id/guideline"  
 app:layout\_constraintTop\_toBottomOf="@id/meat">  
  
 <RadioButton  
 android:id="@+id/beef"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="10dp"  
 android:layout\_marginEnd="10dp"  
 android:layout\_weight="1"  
 android:text="@string/beef" />  
  
 <RadioButton  
 android:id="@+id/chicken"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginEnd="10dp"  
 android:layout\_weight="1"  
 android:text="@string/chicken" />  
  
 <RadioButton  
 android:id="@+id/fish"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginEnd="10dp"  
 android:layout\_weight="1"  
 android:text="@string/fish" />  
  
 <RadioButton  
 android:id="@+id/egg"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginEnd="10dp"  
 android:layout\_weight="1"  
 android:text="@string/egg" />  
 </RadioGroup>  
  
 <ImageView  
 android:id="@+id/salad"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="5dp"  
 android:contentDescription="@string/saladImage"  
 app:layout\_constraintStart\_toEndOf="@id/guideline"  
 app:layout\_constraintTop\_toBottomOf="@id/radioGroup"  
 app:srcCompat="@drawable/salad" />  
  
 <TextView  
 android:id="@+id/fiber"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="5dp"  
 android:layout\_marginTop="8dp"  
 android:text="@string/fiber"  
 android:textColor="@color/font"  
 android:textSize="18sp"  
 app:layout\_constraintStart\_toEndOf="@id/salad"  
 app:layout\_constraintTop\_toTopOf="@id/salad" />  
  
 <LinearLayout  
 android:id="@+id/hori2"  
 android:layout\_width="277dp"  
 android:layout\_height="1dp"  
 android:layout\_marginStart="3dp"  
 android:layout\_marginTop="13dp"  
 android:background="@color/primary"  
 android:orientation="horizontal"  
 app:layout\_constraintStart\_toEndOf="@id/fiber"  
 app:layout\_constraintTop\_toTopOf="@id/fiber" />  
  
 <CheckBox  
 android:id="@+id/lettuce"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="10dp"  
 android:text="@string/lettuce"  
 app:layout\_constraintStart\_toEndOf="@id/guideline"  
 app:layout\_constraintTop\_toBottomOf="@id/salad" />  
  
 <CheckBox  
 android:id="@+id/tomato"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="20dp"  
 android:text="@string/tomato"  
 app:layout\_constraintStart\_toEndOf="@id/lettuce"  
 app:layout\_constraintTop\_toBottomOf="@id/salad" />  
  
 <CheckBox  
 android:id="@+id/pickle"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="20dp"  
 android:text="@string/pickle"  
 app:layout\_constraintStart\_toEndOf="@id/tomato"  
 app:layout\_constraintTop\_toBottomOf="@id/salad" />  
  
 <CheckBox  
 android:id="@+id/onion"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="20dp"  
 android:text="@string/onion"  
 app:layout\_constraintStart\_toEndOf="@id/pickle"  
 app:layout\_constraintTop\_toBottomOf="@id/salad" />  
  
 <LinearLayout  
 android:id="@+id/dot1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:background="@drawable/dot"  
 android:orientation="horizontal"  
 app:layout\_constraintBottom\_toBottomOf="@id/guideline2"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 android:layout\_marginEnd="10dp"/>  
  
 <LinearLayout  
 android:id="@+id/dot2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:orientation="horizontal"  
 android:background="@drawable/dot\_mute"  
 app:layout\_constraintBottom\_toBottomOf="@id/guideline2"  
 app:layout\_constraintStart\_toEndOf="@id/dot1"  
 android:layout\_marginStart="10dp"  
 />  
  
 <androidx.constraintlayout.widget.Guideline  
 android:id="@+id/guideline2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:orientation="horizontal"  
 app:layout\_constraintGuide\_begin="581dp" />  
  
  
</androidx.constraintlayout.widget.ConstraintLayout>

XML for Fragment Two

<?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=".FragmentTwo">  
  
  
 <ImageView  
 android:id="@+id/burger2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="15dp"  
 android:adjustViewBounds="true"  
 android:contentDescription="@string/burger2Image"  
 android:src="@drawable/burger2"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <ImageView  
 android:id="@+id/juice"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:contentDescription="@string/juiceImage"  
 android:src="@drawable/juice"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@id/burger2" />  
  
 <androidx.constraintlayout.widget.Guideline  
 android:id="@+id/guideline3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:orientation="vertical"  
 app:layout\_constraintGuide\_end="391dp" />  
  
 <ImageView  
 android:id="@+id/cheese2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:contentDescription="@string/cheese2Image"  
 android:src="@drawable/cheese2"  
 app:layout\_constraintStart\_toEndOf="@id/guideline3"  
 app:layout\_constraintTop\_toBottomOf="@id/juice" />  
  
 <TextView  
 android:id="@+id/yummyfat"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="5dp"  
 android:layout\_marginTop="8dp"  
 android:text="@string/yummyfat"  
 android:textColor="@color/font"  
 android:textSize="18sp"  
 app:layout\_constraintStart\_toEndOf="@id/cheese2"  
 app:layout\_constraintTop\_toTopOf="@id/cheese2" />  
  
 <LinearLayout  
 android:id="@+id/hori3"  
 android:layout\_width="230dp"  
 android:layout\_height="1dp"  
 android:layout\_marginStart="3dp"  
 android:layout\_marginTop="13dp"  
 android:background="@color/primary"  
 android:orientation="horizontal"  
 app:layout\_constraintStart\_toEndOf="@id/yummyfat"  
 app:layout\_constraintTop\_toTopOf="@id/yummyfat" />  
  
 <CheckBox  
 android:id="@+id/cheese"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="10dp"  
 android:text="@string/cheese"  
 app:layout\_constraintStart\_toEndOf="@id/guideline3"  
 app:layout\_constraintTop\_toBottomOf="@id/cheese2" />  
  
 <CheckBox  
 android:id="@+id/mayo"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="20dp"  
 android:text="@string/mayo"  
 app:layout\_constraintStart\_toEndOf="@id/cheese"  
 app:layout\_constraintTop\_toBottomOf="@id/cheese2" />  
  
 <CheckBox  
 android:id="@+id/mustard"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="20dp"  
 android:text="@string/mustard"  
 app:layout\_constraintStart\_toEndOf="@id/mayo"  
 app:layout\_constraintTop\_toBottomOf="@id/cheese2" />  
  
 <LinearLayout  
 android:id="@+id/hori4"  
 android:layout\_width="402dp"  
 android:layout\_height="1dp"  
 android:layout\_marginStart="3dp"  
 android:layout\_marginTop="13dp"  
 android:background="@color/primary"  
 android:orientation="horizontal"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@id/cheese" />  
  
 <TextView  
 android:id="@+id/size"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="10dp"  
 android:text="@string/size"  
 android:textColor="@color/font"  
 android:textSize="18sp"  
 android:textStyle="bold"  
 app:layout\_constraintStart\_toEndOf="@id/guideline3"  
 app:layout\_constraintTop\_toBottomOf="@id/hori4" />  
  
 <androidx.appcompat.widget.AppCompatSpinner  
 android:id="@+id/spinner"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="10dp"  
 app:layout\_constraintStart\_toEndOf="@id/size"  
 app:layout\_constraintTop\_toBottomOf="@id/hori4" />  
  
 <TextView  
 android:id="@+id/yourorder"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="10dp"  
 android:text="@string/yourorder"  
 android:textColor="@color/primary"  
 android:textStyle="bold"  
 app:layout\_constraintStart\_toEndOf="@id/guideline4"  
 app:layout\_constraintTop\_toBottomOf="@id/hori4" />  
  
 <ImageView  
 android:id="@+id/burger"  
 android:contentDescription="@string/burgerImage"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="15dp"  
 android:layout\_marginTop="10dp"  
 android:src="@drawable/burger"  
 app:layout\_constraintStart\_toEndOf="@id/yourorder"  
 app:layout\_constraintTop\_toBottomOf="@id/hori4" />  
  
 <androidx.constraintlayout.widget.Guideline  
 android:id="@+id/guideline4"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:orientation="vertical"  
 app:layout\_constraintGuide\_begin="217dp" />  
  
 <TextView  
 android:id="@+id/summary"  
 android:layout\_width="180dp"  
 android:layout\_height="80dp"  
 android:text="@string/placeholder"  
 android:textColor="@color/primary"  
 app:layout\_constraintStart\_toEndOf="@id/guideline4"  
 app:layout\_constraintTop\_toBottomOf="@id/burger" />  
  
 <TextView  
 android:id="@+id/price"  
 android:layout\_width="100dp"  
 android:layout\_height="30dp"  
 android:background="@color/price"  
 android:gravity="center"  
 android:text="@string/priceplaceholder"  
 android:textColor="@color/primary"  
 android:textStyle="bold"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toEndOf="@id/guideline4"  
 app:layout\_constraintTop\_toBottomOf="@id/guideline5" />  
  
 <androidx.constraintlayout.widget.Guideline  
 android:id="@+id/guideline5"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:orientation="horizontal"  
 app:layout\_constraintGuide\_begin="501dp" />  
  
 <androidx.constraintlayout.widget.Guideline  
 android:id="@+id/guideline6"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:orientation="horizontal"  
 app:layout\_constraintGuide\_begin="581dp" />  
  
 <LinearLayout  
 android:id="@+id/dot1F2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:background="@drawable/dot\_mute"  
 android:orientation="horizontal"  
 app:layout\_constraintBottom\_toTopOf="@id/guideline6"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 android:layout\_marginEnd="10dp"/>  
  
 <LinearLayout  
 android:id="@+id/dot2F2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:orientation="horizontal"  
 android:background="@drawable/dot"  
 app:layout\_constraintBottom\_toBottomOf="@id/guideline6"  
 app:layout\_constraintStart\_toEndOf="@id/dot1F2"  
 android:layout\_marginStart="10dp"  
 />  
  
  
</androidx.constraintlayout.widget.ConstraintLayout>

Java Code for Main Activity

package com.example.assignment3task2;  
  
import androidx.appcompat.app.AppCompatActivity;  
import androidx.fragment.app.FragmentManager;  
  
import android.net.Uri;  
import android.os.Bundle;  
import android.util.Log;  
import android.widget.Toast;  
  
import java.util.ArrayList;  
  
public class MainActivity extends AppCompatActivity implements FragmentOne.OnFragmentInteractionListener{  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 FragmentOne fragmentOne= new FragmentOne();  
 FragmentManager fragmentManager=getSupportFragmentManager();  
 fragmentManager.beginTransaction().add(R.id.*layout*,fragmentOne).addToBackStack("true").commit();  
  
 }  
  
  
 //this here is the interface  
 @Override  
 public void onFragmentInteraction(String meat, ArrayList<String> fiber) {  
 FragmentTwo fragment=FragmentTwo.*newInstance*(meat,fiber);  
 getSupportFragmentManager()  
 .beginTransaction()  
 .replace(R.id.*layout*,fragment)  
 .addToBackStack(null)  
 .commit();  
 }  
}

Java Code for FragmentOne

package com.example.assignment3task2;  
  
import android.content.Context;  
import android.gesture.GestureUtils;  
import android.net.Uri;  
import android.os.Bundle;  
  
import androidx.fragment.app.Fragment;  
  
import android.util.Log;  
import android.view.GestureDetector;  
import android.view.LayoutInflater;  
import android.view.MotionEvent;  
import android.view.View;  
import android.view.ViewGroup;  
import android.widget.CheckBox;  
import android.widget.RadioButton;  
import android.widget.RadioGroup;  
import android.widget.Toast;  
  
import java.util.ArrayList;  
import java.util.HashMap;  
  
  
public class FragmentOne extends Fragment implements GestureDetector.OnGestureListener{  
  
 //RadioGroup  
 private RadioGroup radioGroup;  
 private boolean isProtein=false; //validate that a protein is picked  
 private RadioButton radioButton;  
 private String selected\_meat="";//to be bundled  
  
 //Fiber  
 private String[] fiberID;  
 private CheckBox[] checkBoxes\_fiber;  
 private ArrayList<String> selected\_fiber=new ArrayList<>();//to be bundled  
 private int selection=3;  
 private int numofVeg=0;  
 private boolean vegPromo=false;  
  
  
  
 private OnFragmentInteractionListener mListener;  
  
 private GestureDetector gestureDetector;  
  
 public FragmentOne() {  
 // Required empty public constructor  
 }  
  
  
 @Override  
 public void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 }  
  
 private void initMain(View view){  
 initRadioGroup(view);  
 initFiber(view);  
 }  
  
 private void initRadioGroup(final View view) {  
 radioGroup=view.findViewById(R.id.*radioGroup*);  
 radioGroup.setOnCheckedChangeListener(new RadioGroup.OnCheckedChangeListener() {  
 @Override  
 public void onCheckedChanged(RadioGroup group, int checkedId) {  
 isProtein=true;  
 int id=radioGroup.getCheckedRadioButtonId();  
 radioButton=((View)view).findViewById(id);  
 String result=radioButton.getText().toString();  
 selected\_meat=result;  
 }  
 });  
 }  
  
  
 private void initFiber(View view){  
 fiberID=view.getResources().getStringArray(R.array.*fiber*);  
 checkBoxes\_fiber=new CheckBox[fiberID.length];  
 for(int i=0;i<fiberID.length;i++){  
 int id=getResources().getIdentifier(fiberID[i],"id",view.getContext().getPackageName());  
 checkBoxes\_fiber[i]=view.findViewById(id);  
 checkBoxes\_fiber[i].setOnClickListener(new View.OnClickListener(){  
 @Override  
 public void onClick(View v) {  
 if(((CheckBox) v).isChecked()){  
 vegChecked();  
 }else{  
 vegUnchecked();  
 }  
 }  
 });  
 }  
 }  
 private void vegChecked(){  
 selection--;  
 numofVeg++;  
 checkSelection();  
 }  
 private void vegUnchecked(){  
 selection++;  
 numofVeg--;  
 checkSelection();  
 }  
 private void checkSelection(){  
 for(int i=0;i<checkBoxes\_fiber.length;i++){  
 if(selection==0){  
 if(!checkBoxes\_fiber[i].isChecked()){  
 checkBoxes\_fiber[i].setClickable(false);  
 checkBoxes\_fiber[i].setEnabled(false);  
 }  
 }else{  
 checkBoxes\_fiber[i].setClickable(true);  
 checkBoxes\_fiber[i].setEnabled(true);  
 }  
 }  
 }  
  
  
 private void reset(View view){  
  
 //reset meat section  
 radioGroup.setOnCheckedChangeListener(null);  
 radioGroup.clearCheck();  
 selected\_meat="";  
  
 //reset vegetables section  
 selected\_fiber=new ArrayList<>();  
 selection=3;  
 numofVeg=0;  
 vegPromo=false;  
 clearCheckBox();  
  
 //re-init  
 initRadioGroup(view);  
 initFiber(view);  
 }  
 private void clearCheckBox(){  
 for(int i=0;i<checkBoxes\_fiber.length;i++){  
 checkBoxes\_fiber[i].setChecked(false);  
 checkBoxes\_fiber[i].setClickable(true);  
 checkBoxes\_fiber[i].setEnabled(true);  
 }  
 }  
 private void getVeg(){  
 for(int i=0;i<checkBoxes\_fiber.length;i++){  
 if(checkBoxes\_fiber[i].isChecked()){  
 selected\_fiber.add(checkBoxes\_fiber[i].getText().toString());  
 }  
 }  
 }  
 @Override  
 public View onCreateView(LayoutInflater inflater, ViewGroup container,  
 Bundle savedInstanceState) {  
 // Inflate the layout for this fragment  
 final View view=inflater.inflate(R.layout.*fragment\_one*,container,false);  
 //GestureDetector  
 gestureDetector=new GestureDetector(this);  
 view.setOnTouchListener(new View.OnTouchListener() {  
 @Override  
 public boolean onTouch(View v, MotionEvent event) {  
 if(gestureDetector.onTouchEvent(event)){  
 if(isProtein){  
 //function to get array of selected veggies  
 getVeg();  
 onButtonPressed(selected\_meat,selected\_fiber);  
 reset(view);  
 }else{  
 Toast.*makeText*(getActivity(),"Pick a Protein to proceed",Toast.*LENGTH\_SHORT*).show();  
 }  
 }  
 return true;  
 }  
 });  
 initMain(view);  
 return view;  
 }  
  
 public void onButtonPressed(String meat,ArrayList<String> fiber) {  
 if (mListener != null) {  
 mListener.onFragmentInteraction(meat,fiber);  
 }  
 }  
  
 @Override  
 public void onAttach(Context context) {  
 super.onAttach(context);  
 if (context instanceof OnFragmentInteractionListener) {  
 mListener = (OnFragmentInteractionListener) context;  
 } else {  
 throw new RuntimeException(context.toString()  
 + " must implement OnFragmentInteractionListener");  
 }  
 }  
  
 @Override  
 public void onDetach() {  
 super.onDetach();  
 mListener = null;  
 }  
  
 @Override  
 public boolean onDown(MotionEvent e) {  
 return false;  
 }  
  
 @Override  
 public void onShowPress(MotionEvent e) {  
  
 }  
  
 @Override  
 public boolean onSingleTapUp(MotionEvent e) {  
 return false;  
 }  
  
 @Override  
 public boolean onScroll(MotionEvent e1, MotionEvent e2, float distanceX, float distanceY) {  
 return false;  
 }  
  
 @Override  
 public void onLongPress(MotionEvent e) {  
  
 }  
  
 @Override  
 public boolean onFling(MotionEvent e1, MotionEvent e2, float velocityX, float velocityY) {  
 boolean result=false;  
 float diffX=e2.getX()-e1.getX();  
 //diffX<0 means swipe right to left.  
 if(diffX<0){  
 result=true;  
 }  
 return result;  
 }  
  
  
 public interface OnFragmentInteractionListener {  
 void onFragmentInteraction(String meat,ArrayList<String> fiber);  
 }  
}

Java Code for FragmentTwo

package com.example.assignment3task2;  
  
import android.content.Context;  
import android.net.Uri;  
import android.os.Bundle;  
  
import androidx.fragment.app.Fragment;  
  
import android.util.Log;  
import android.view.LayoutInflater;  
import android.view.View;  
import android.view.ViewGroup;  
import android.widget.AdapterView;  
import android.widget.ArrayAdapter;  
import android.widget.CheckBox;  
import android.widget.Spinner;  
import android.widget.TextView;  
  
import java.lang.reflect.Array;  
import java.util.ArrayList;  
import java.util.HashMap;  
  
  
public class FragmentTwo extends Fragment {  
  
 private static final String *ARG\_PARAM1* = "selected\_meat";  
 private static final String *ARG\_PARAM2* = "selected\_fiber";  
  
  
 // *TODO: Rename and change types of parameters* private String selected\_meat;  
 private ArrayList<String> selected\_fiber;  
 private String temp;  
 private Double initialPrice=0.0;  
  
  
 //Junk  
 private String[] junkID;  
 private CheckBox[] checkBoxes\_junk;  
 private String selected\_junk=""; //implement an update method to dynamically change the summary  
  
 //Size  
 private boolean isSize=false;  
 static private double *selected\_size*;  
 private Spinner spinner;  
 private ArrayAdapter<String> adapter;  
 private String sizeDefault="Small";  
 private String[] size;  
  
 //HashMap  
 private HashMap<String,Double> junk;  
 private HashMap<String,Double> sizeHash;  
 private HashMap<String,Double> meatHash; //placed in second fragment  
 private HashMap<String,Double> fiberHash; //placed in second fragment  
  
 //widgets  
 private TextView summary,price;  
 private String initialSummary="";  
  
 public FragmentTwo() {  
 // Required empty public constructor  
 }  
  
  
 public static FragmentTwo newInstance(String param1, ArrayList<String> param2) {  
 FragmentTwo fragment = new FragmentTwo();  
 Bundle args = new Bundle();  
 args.putString(*ARG\_PARAM1*, param1);  
 args.putStringArrayList(*ARG\_PARAM2*, param2);  
 fragment.setArguments(args);  
 return fragment;  
 }  
  
 @Override  
 public void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 if (getArguments() != null) {  
 selected\_meat = getArguments().getString(*ARG\_PARAM1*);  
 selected\_fiber = getArguments().getStringArrayList(*ARG\_PARAM2*);  
 }  
 initHashMap();  
 initPrice();  
 }  
 private void initMain(View view,ViewGroup container){  
 price=view.findViewById(R.id.*price*);  
 initSummary(view);  
 updatePrice();  
 initJunk(view);  
 initSpinner(view,container);  
 }  
 private void initHashMap(){  
 //junk  
 junk=new HashMap<>();  
 junk.put("Cheese",1.00);  
 junk.put("Mayonaise",0.50);  
 junk.put("Mustard",0.70);  
  
 //size  
 sizeHash=new HashMap<>();  
 sizeHash.put("Regular",1.2);  
 sizeHash.put("Small",1.0);  
 sizeHash.put("Large",1.3);  
 sizeHash.put("Gigantic",1.5);  
  
 //meat  
 meatHash=new HashMap<>();  
 meatHash.put("beef",4.50);  
 meatHash.put("chicken",3.00);  
 meatHash.put("fish",4.00);  
 meatHash.put("egg",2.00);  
  
 //fiber  
 fiberHash=new HashMap<>();  
 fiberHash.put("veg",0.50);  
 }  
 private void initPrice(){  
 initialPrice+=meatHash.get(selected\_meat);  
 double temp=fiberHash.get("veg");  
 switch(selected\_fiber.size()){  
 case 0:  
 break;  
 case 1:  
 initialPrice+=temp;  
 break;  
 case 2:  
 initialPrice+=(temp\*2);  
 break;  
 case 3:  
 initialPrice+=(temp\*2);  
 break;  
 }  
 }  
 private void updateSummary(){  
 if(selected\_fiber.size()!=0){  
 initialSummary=selected\_meat+" with "+temp+" top up with "+selected\_junk;  
 }else{  
 initialSummary=selected\_meat+" top up with "+selected\_junk;  
 }  
 summary.setText(initialSummary);  
 }  
 private void initSummary(View view){  
 summary=view.findViewById(R.id.*summary*);  
 getVeg();  
 if(selected\_fiber.size()!=0){  
 initialSummary=selected\_meat+" with "+temp+" top up with ";  
 }else{  
 initialSummary=selected\_meat+" top up with ";  
 }  
 summary.setText(initialSummary);  
 }  
 private void initJunk(View view){  
 junkID=view.getResources().getStringArray(R.array.*junk*);  
 checkBoxes\_junk=new CheckBox[junkID.length];  
 for(int i=0;i<junkID.length;i++){  
 int id=getResources().getIdentifier(junkID[i],"id",view.getContext().getPackageName());  
 checkBoxes\_junk[i]=view.findViewById(id);  
 checkBoxes\_junk[i].setOnClickListener(new View.OnClickListener(){  
 @Override  
 public void onClick(View v) {  
 if(((CheckBox)v).isChecked()){  
 checkChanges();  
 getJunk();  
 updateSummary();  
  
 }else{  
 checkChanges();  
 getJunk();  
 updateSummary();  
 }  
 }  
 });  
 }  
 }  
 private void getJunk(){  
 ArrayList<String> temp=new ArrayList<>();  
 selected\_junk="";  
 for(int i=0;i<checkBoxes\_junk.length;i++){  
 if(checkBoxes\_junk[i].isChecked()){  
 temp.add(checkBoxes\_junk[i].getText().toString());  
 }  
 }  
 for(int i=0;i<temp.size();i++){  
 if(i!=temp.size()-1){  
 selected\_junk+=temp.get(i)+",";  
 }else{  
 selected\_junk+=temp.get(i);  
 }  
 }  
 selected\_junk=selected\_junk.toLowerCase();  
 }  
 private void getVeg(){  
 temp="";  
 for(int i=0;i<selected\_fiber.size();i++){  
 if(i!=selected\_fiber.size()-1){  
 temp+=selected\_fiber.get(i)+",";  
 }else{  
 temp+=selected\_fiber.get(i);  
 }  
 }  
  
 }  
  
  
 private void initSpinner(View view,ViewGroup container){  
 size=view.getResources().getStringArray(R.array.*sizes*);  
 spinner=view.findViewById(R.id.*spinner*);  
 adapter=new ArrayAdapter<String>(container.getContext(),android.R.layout  
 .*simple\_spinner\_item*,size);  
 adapter.setDropDownViewResource(android.R.layout.*simple\_spinner\_dropdown\_item*);  
 spinner.setAdapter(adapter);  
 spinner.setOnItemSelectedListener(new AdapterView.OnItemSelectedListener() {  
 @Override  
 public void onItemSelected(AdapterView<?> parent, View view, int position, long id) {  
 sizeDefault=spinner.getSelectedItem().toString();  
 checkChanges();  
 }  
  
 @Override  
 public void onNothingSelected(AdapterView<?> parent) {  
 sizeDefault="Small";  
 }  
 });  
 }  
   
 private void updatePrice(){  
 price.setText(String.*format*("RM%.2f",initialPrice));  
 }  
  
 private void checkChanges(){  
 initialPrice=0.0;  
 initPrice();  
 for(int i=0;i<checkBoxes\_junk.length;i++){  
 if(checkBoxes\_junk[i].isChecked()){  
 initialPrice+=junk.get(checkBoxes\_junk[i].getText().toString());  
 }  
 }  
 initialPrice\*=sizeHash.get(sizeDefault);  
 updatePrice();  
  
 }  
 @Override  
 public View onCreateView(LayoutInflater inflater, ViewGroup container,  
 Bundle savedInstanceState) {  
 View view=inflater.inflate(R.layout.*fragment\_two*, container, false);  
 initMain(view,container);  
 return view;  
 }  
}