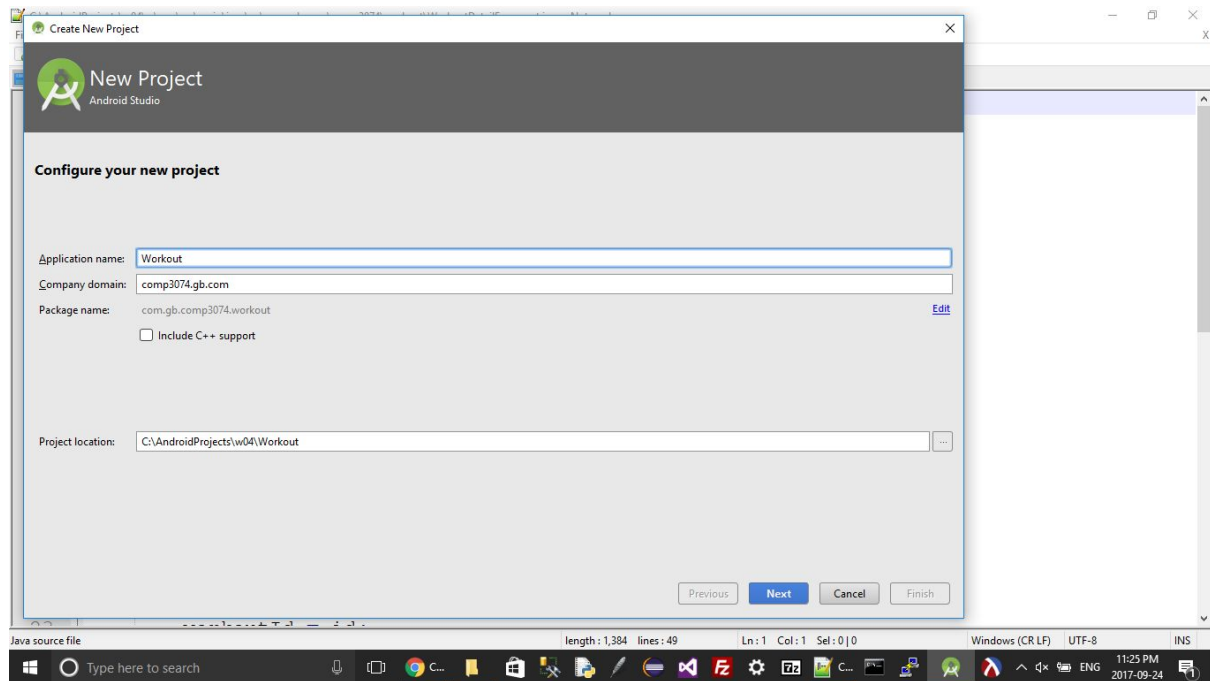
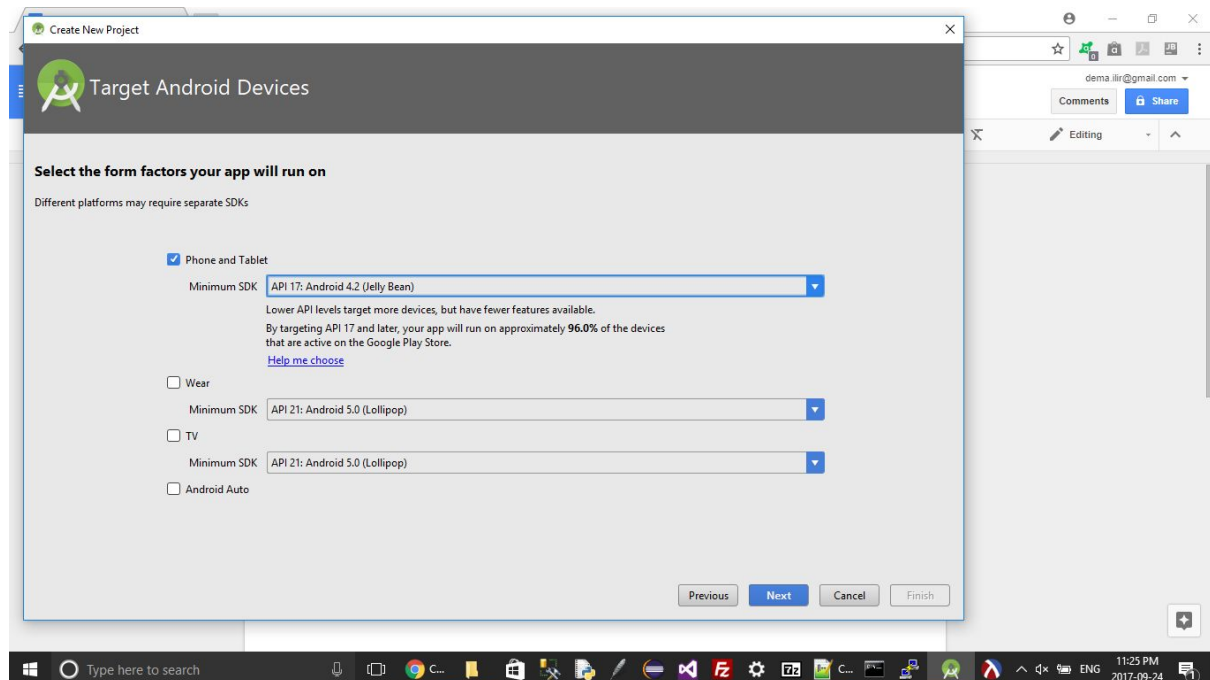


Start a new app called Workout:



Set minimum SDK 17



Main layout:

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="horizontal"
    tools:context="com.gb.comp3074.workout.MainActivity">
```

```

<fragment
    android:layout_width="0dp"
    android:layout_weight="2"
    android:layout_height="match_parent"
    android:id="@+id/list_frag"
    class="com.gb.comp3074.workout.WorkoutListFragment"/>

<FrameLayout
    android:layout_width="0dp"
    android:layout_weight="3"
    android:layout_height="match_parent"
    android:id="@+id/fragment_container"></FrameLayout>
</LinearLayout>

```

Java code:

```

import android.app.Activity;
import android.app.FragmentTransaction;
import android.os.Bundle;

```

```

public class MainActivity extends Activity implements
    WorkoutListFragment.WorkoutListener {

```

```

    @Override

```

```

    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }

```

```

    @Override

```

```

    public void itemClicked(long id) {
        WorkoutDetailFragment details = new WorkoutDetailFragment();
        FragmentTransaction ft = getFragmentManager().beginTransaction();
        details.setWorkoutId(id);
        ft.replace(R.id.fragment_container, details);
        ft.addToBackStack(null);
        ft.setTransition(FragmentTransaction.TRANSIT_FRAGMENT_FADE);
        ft.commit();
    }
}

```

Add the workout class:

```

package com.gb.comp3074.workout;

```

```

/**
 * Created by demai on 2017-09-24.
 */

public class Workout {

    private String name;
    private String description;
    public static final Workout[] workouts = {
        new Workout("The limb loosener",
            "5 push-ups\n10 1-legged squats\n5 pull-ups"),
        new Workout("Core Agony",
            "50 push-ups\n50 pull-ups\n100 squats"),
        new Workout("The Wimp Special",
            "1 push-up\n1 pull-up\n1 hand-stand push-up"),
        new Workout("Strength and Length",
            "500 m run\n20x1.5 pood kettleball")
    };

    public Workout(String name, String description) {
        this.name = name;
        this.description = description;
    }

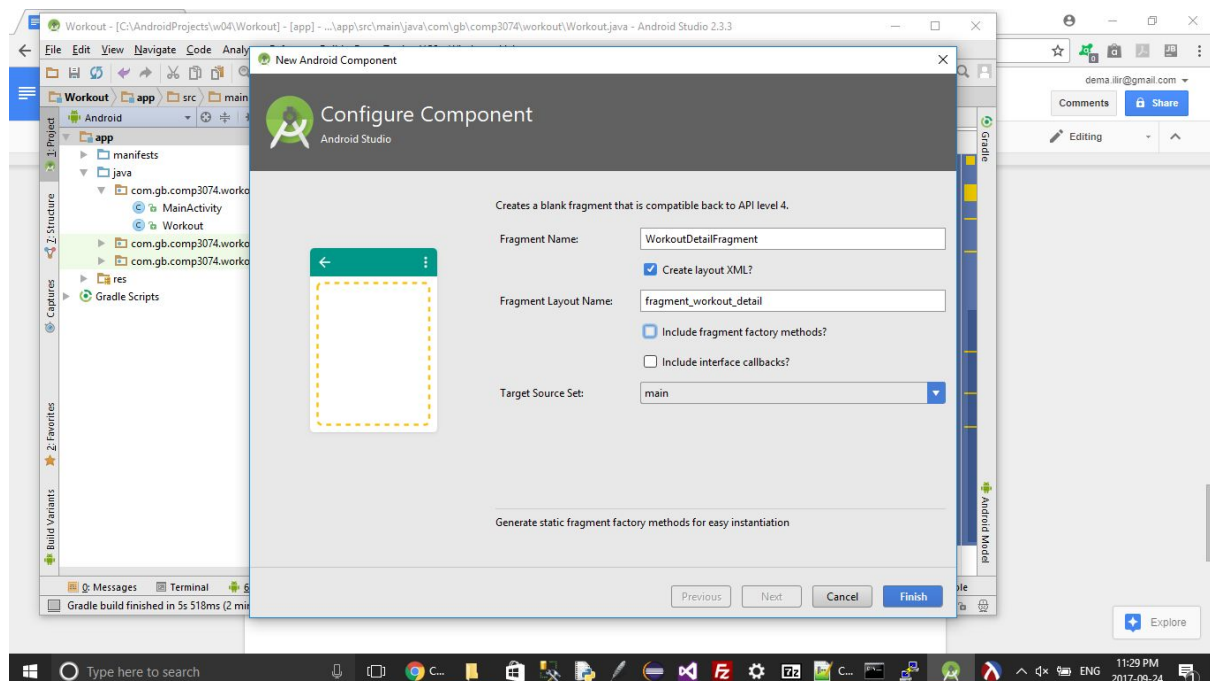
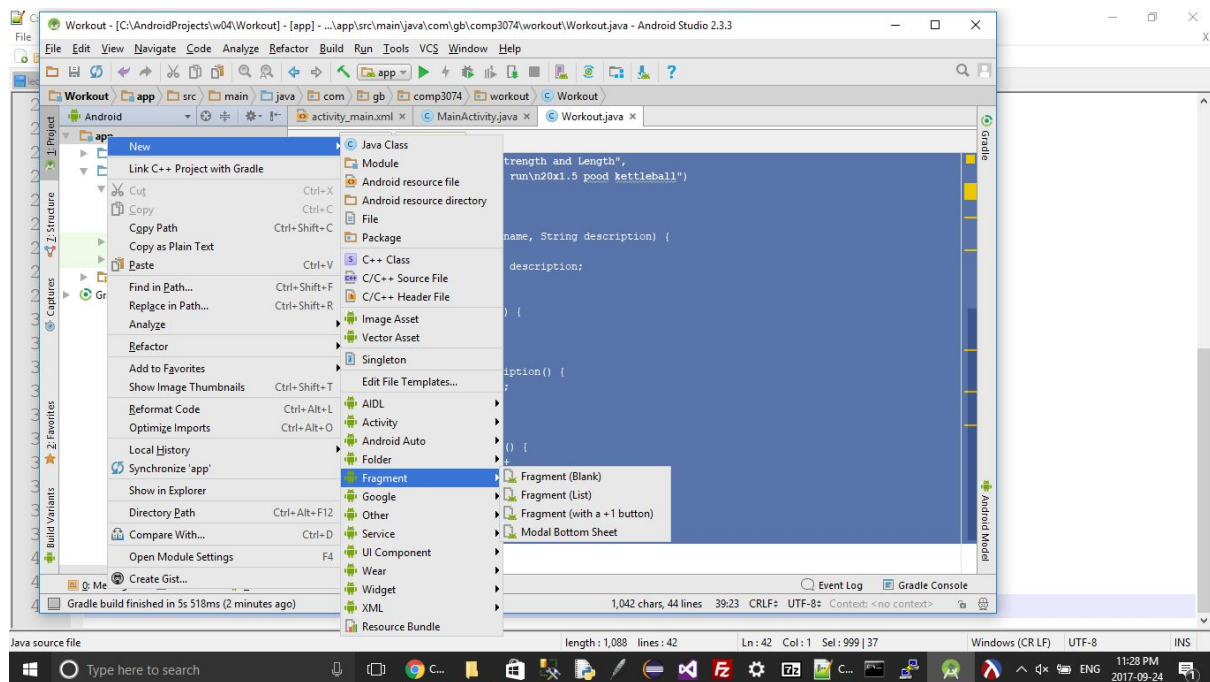
    public String getName() {
        return name;
    }

    public String getDescription() {
        return description;
    }

    @Override
    public String toString() {
        return "Workout{" +
            "name='" + name + '\'' +
            '}'
    }
}

```

Add a blank fragment:



Change the fragment layout to:

```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:orientation="vertical"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context="com.gb.comp3074.workout.WorkoutDetailFragment">

    <!-- TODO: Update blank fragment layout -->
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
```

```

        android:textAppearance="?android:attr/textAppearanceLarge"
        android:text = ""
        android:id="@+id/textTitle"/>

<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text = ""
    android:id="@+id/textDescription"/>

</LinearLayout>

```

Change the fragment java code to:

```

import android.os.Bundle;
import android.app.Fragment;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.TextView;

/**
 * A simple {@link Fragment} subclass.
 */
public class WorkoutDetailFragment extends Fragment {
    private long workoutId;

    public WorkoutDetailFragment() {
        // Required empty public constructor
    }

    public void setWorkoutId(long id) {
        workoutId = id;
    }

    @Override
    public View onCreateView(LayoutInflater inflater, ViewGroup container,
                             Bundle savedInstanceState) {
        // Inflate the layout for this fragment
        return inflater.inflate(R.layout.fragment_workout_detail, container, false);
    }

    @Override
    public void onStart() {
        super.onStart();
        View view = getView();
        if(view != null) {

```

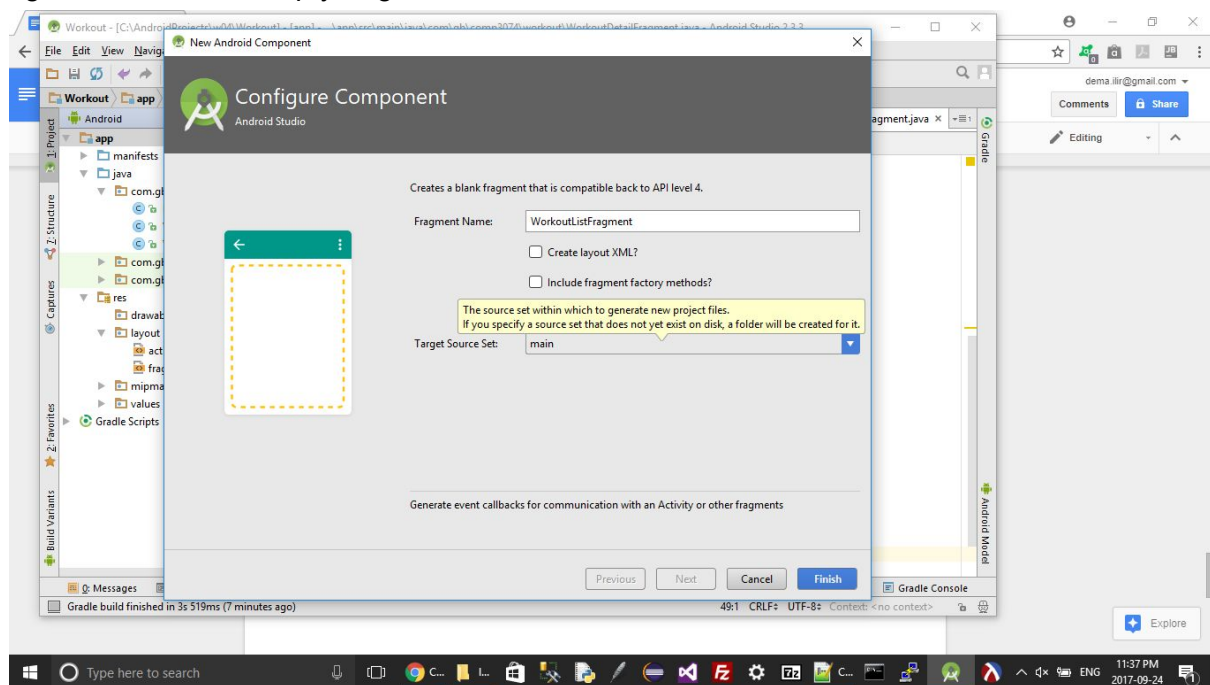
```

        TextView title =
            (TextView) view.findViewById(R.id.textTitle);
        Workout workout =
            Workout.workouts[(int)workoutId];
        title.setText(workout.getName());
        TextView description =
            (TextView) view.findViewById(R.id.textDescription);
        description.setText(workout.getDescription());
    }
}
}

```

Now create a second fragment that contains a list of different workouts.
Here we don't need a layout and event listener.

Again start with an empty fragment:



Change its java code to:

```

import android.os.Bundle;
import android.app.ListFragment;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.ArrayAdapter;
import android.content.Context;
import android.widget.ListView;

```

```

public class WorkoutListFragment extends ListFragment {

    static interface WorkoutListener {
        void itemClicked(long id);
    };

    public WorkoutListener listener;

    @Override
    public View onCreateView(LayoutInflater inflater, ViewGroup container,
                             Bundle savedInstanceState) {
        String[] names = new String[Workout.workouts.length];
        for(int i=0; i < Workout.workouts.length;i++)
            names[i] = Workout.workouts[i].getName();
        ArrayAdapter<String> adapter =
            new ArrayAdapter<String>(inflater.getContext(),
                                   android.R.layout.simple_list_item_1,names);
        setListAdapter(adapter);
        // Inflate the layout for this fragment
        // return inflater.inflate(R.layout.fragment_workout_list, container, false);
        return super.onCreateView(inflater, container, savedInstanceState);
    }

    @Override
    public void onAttach(Context context) {
        super.onAttach(context);
        this.listener = (WorkoutListener) context;
    }

    public void onListItemClick(ListView l,
                                View v, int position, long id){
        if (listener != null)
            listener.itemClicked(id);
    }
}

```

Try the app!