

TUGAS PEMOGRAMAN MOBILE  
MEMBUAT RECYCLERVIEW



Oleh :

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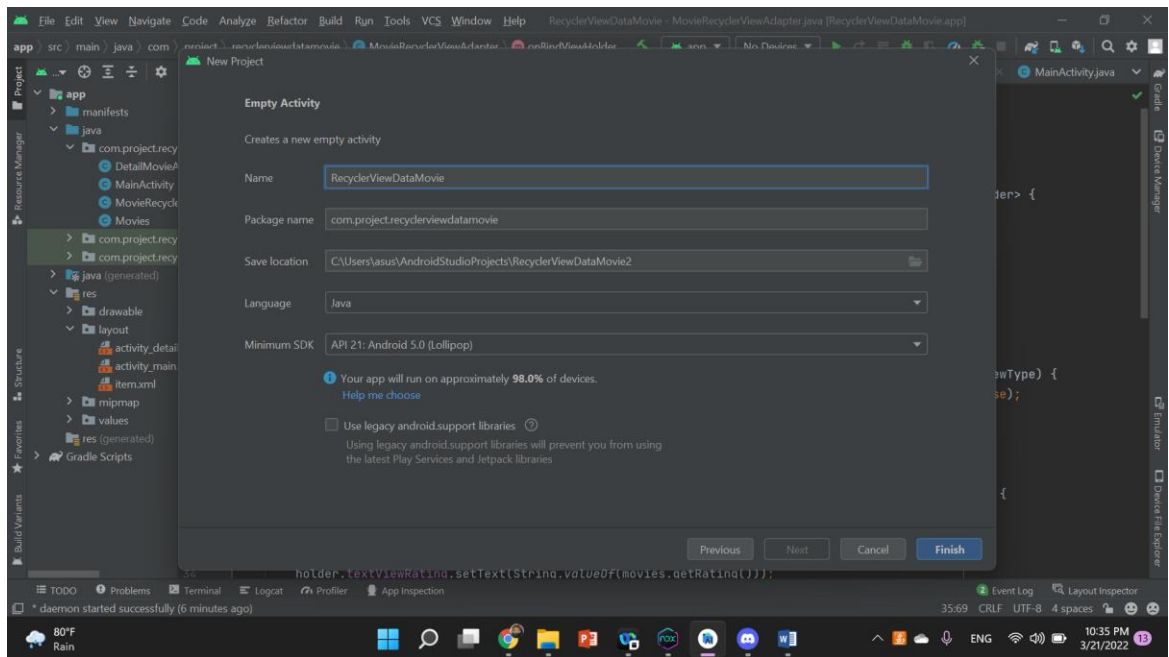
FAKULTAS TEKNIK

PROGRAM STUDI TEKNOLOGI INFORMASI

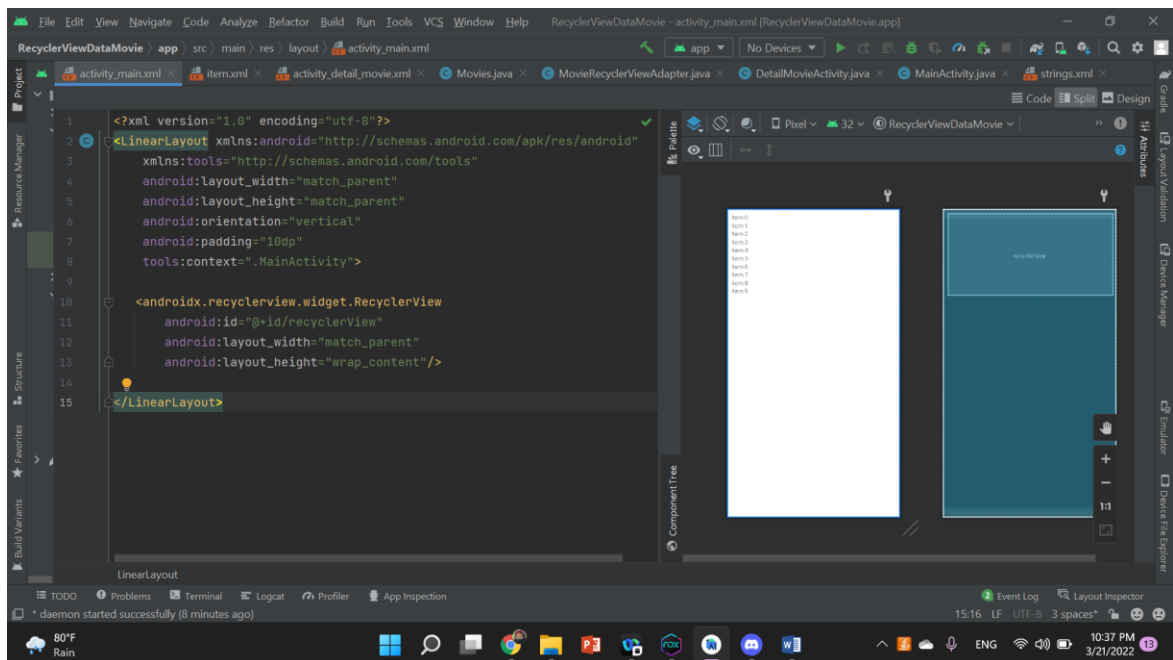
TAHUN AJARAN GENAP 2022

# Membuat Recycler View Movie

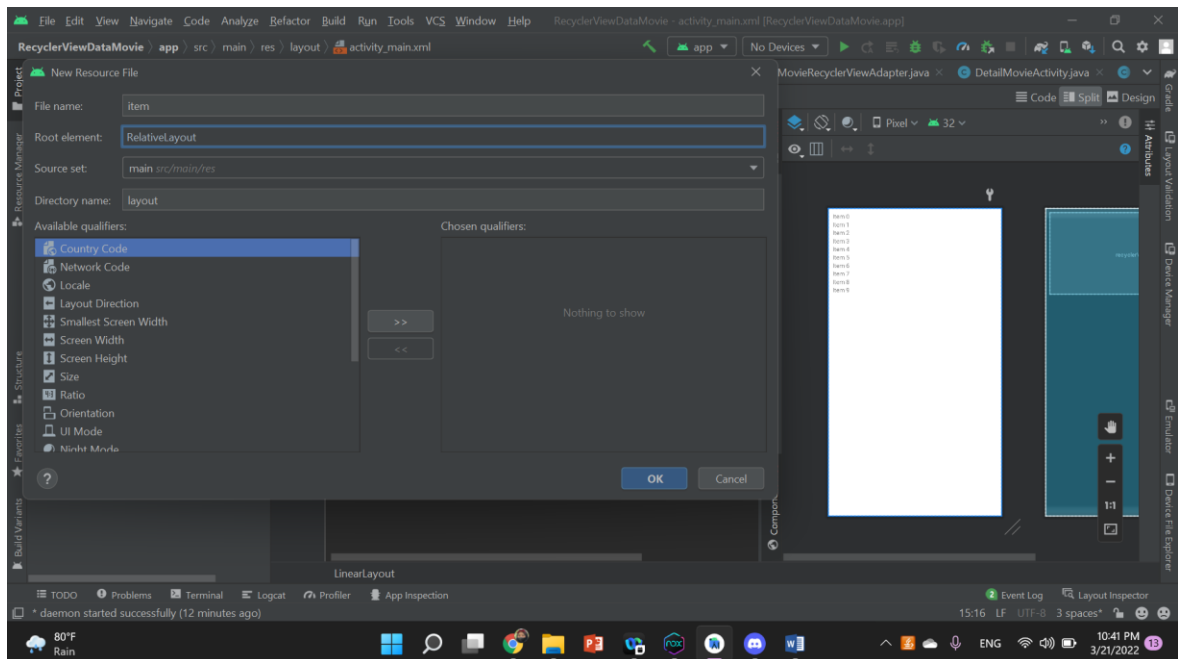
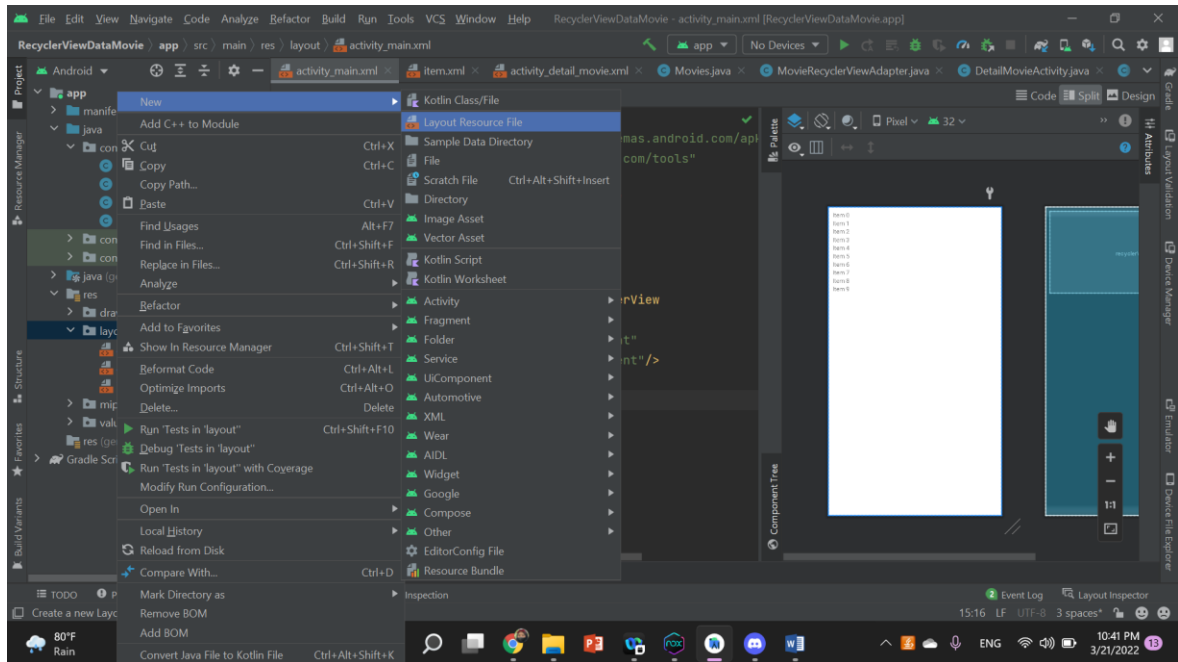
## 1. Membuat New Project dengan nama RecyclerViewMovie



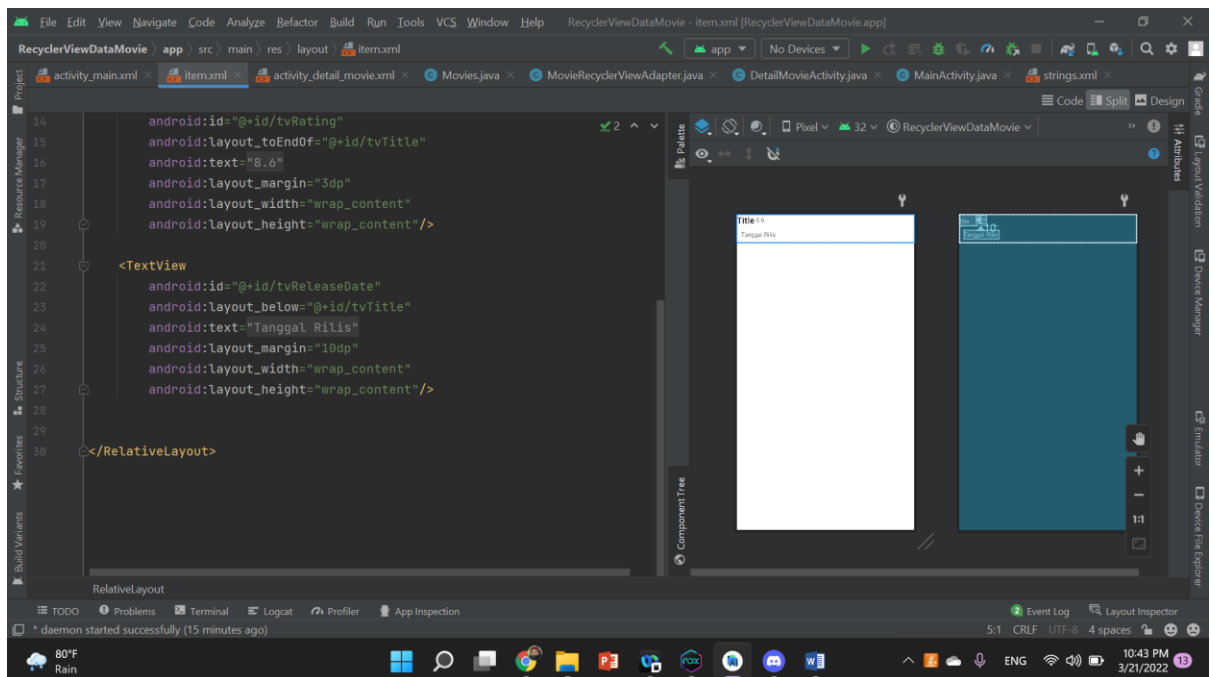
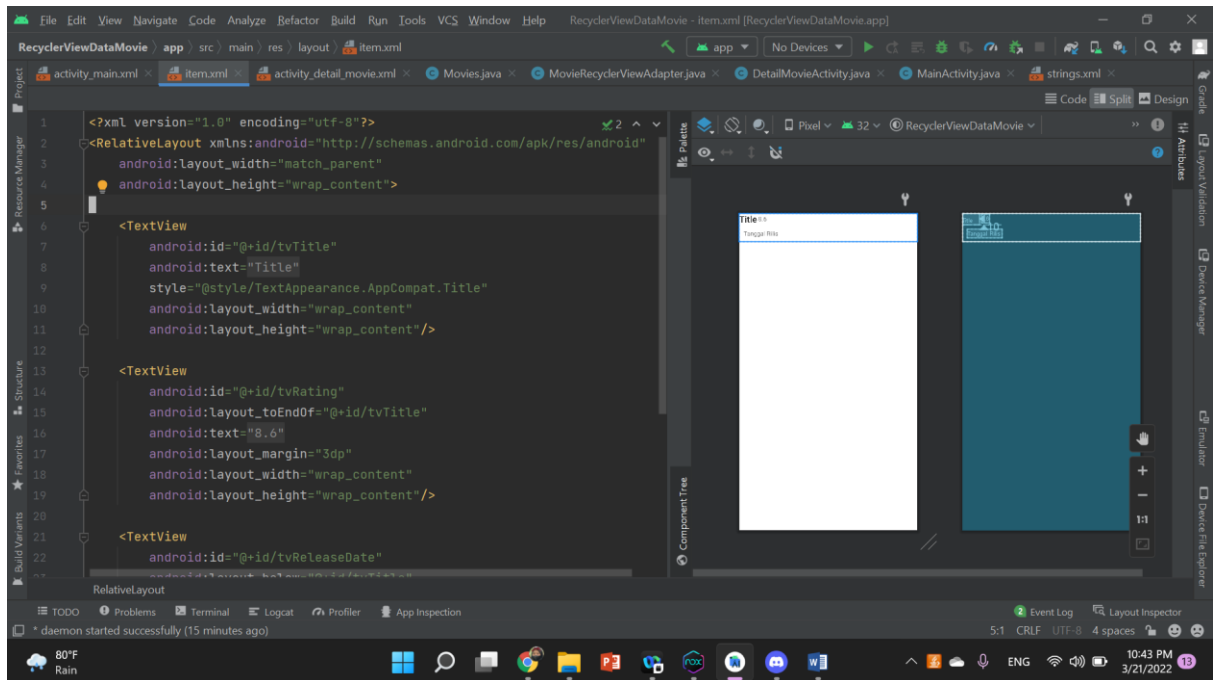
## 2. Tulis Code ini di activity\_main.xml



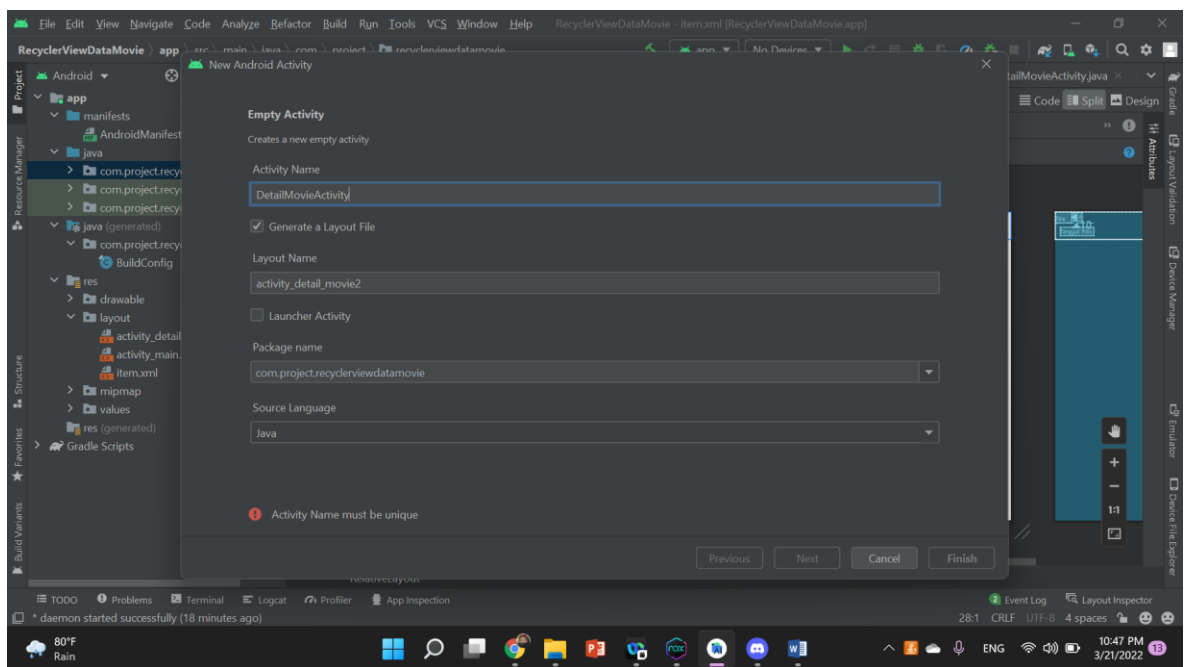
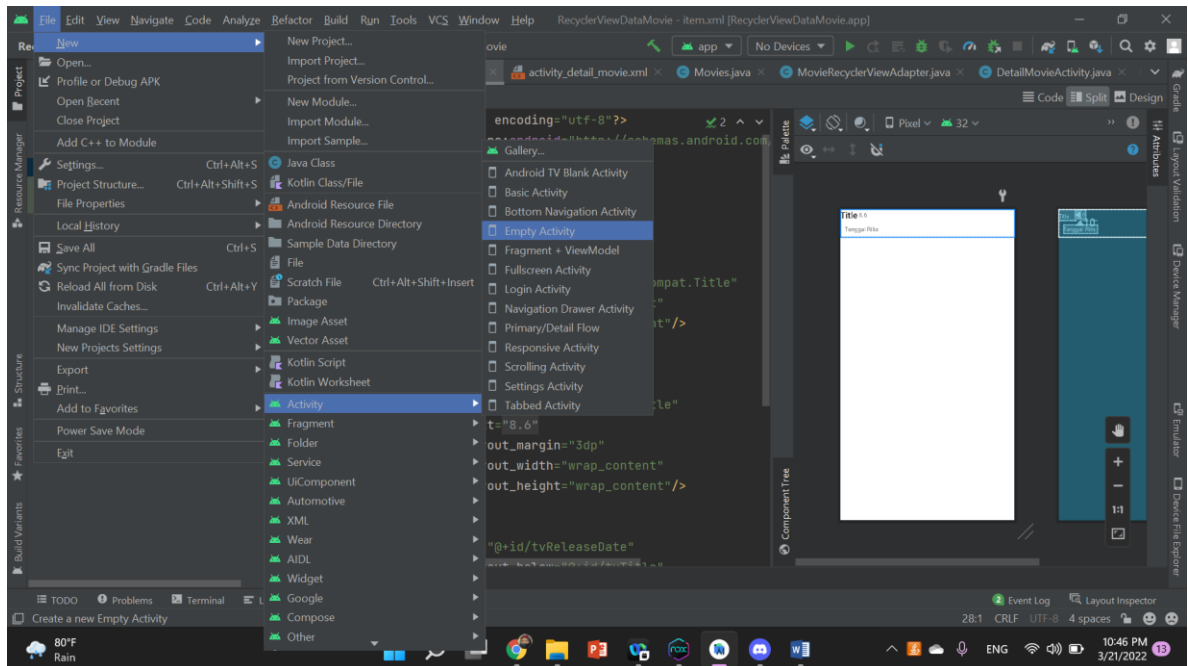
### 3. Buat Layout Baru Bernama Item



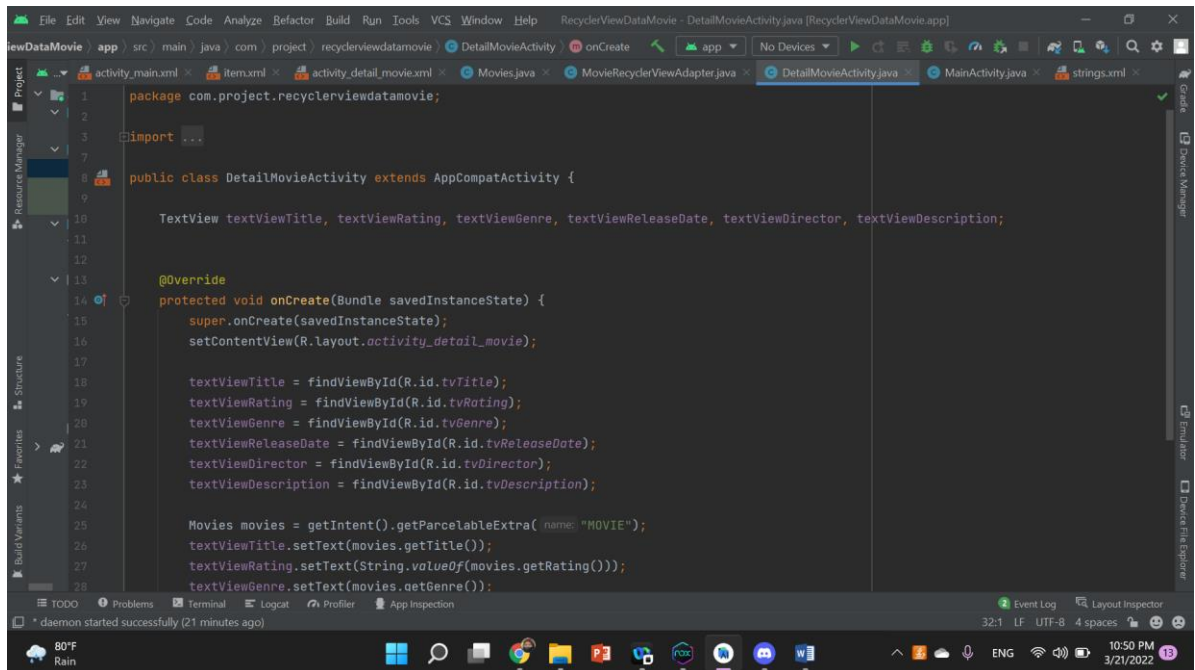
### 4. Tulis Code ini di Layout ( item.xml )



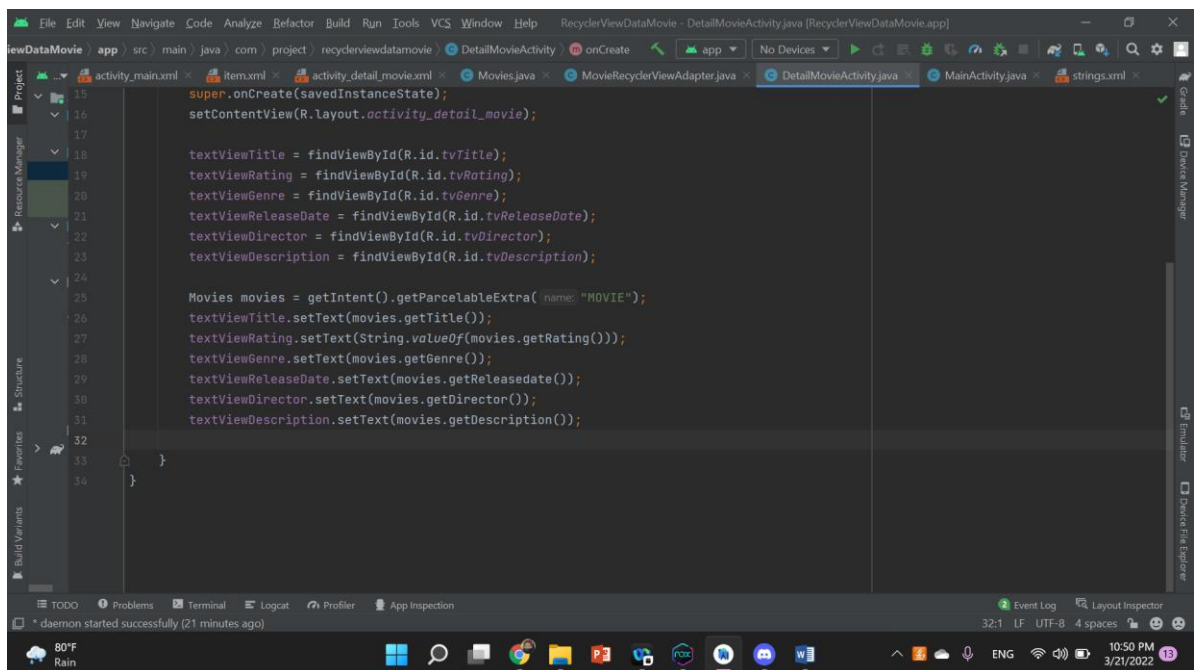
## 5. Buat Activity Baru ( diberi nama DetailMovieActivity)



6. Tulis Code ini di dalam file DetailMovieActivity.java

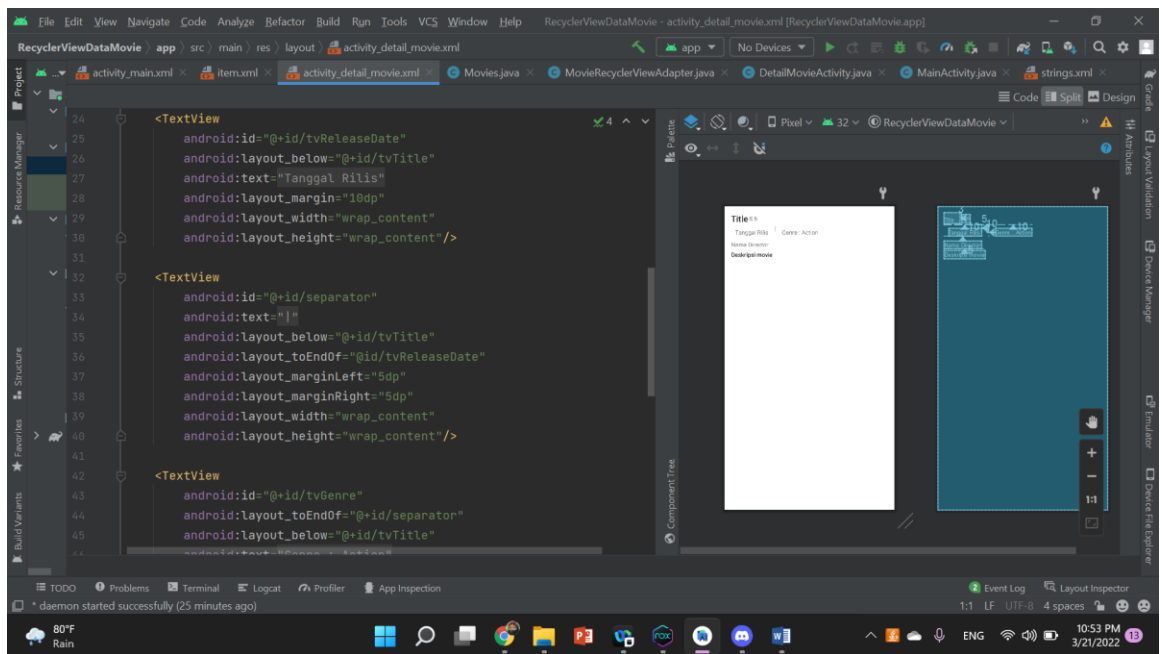
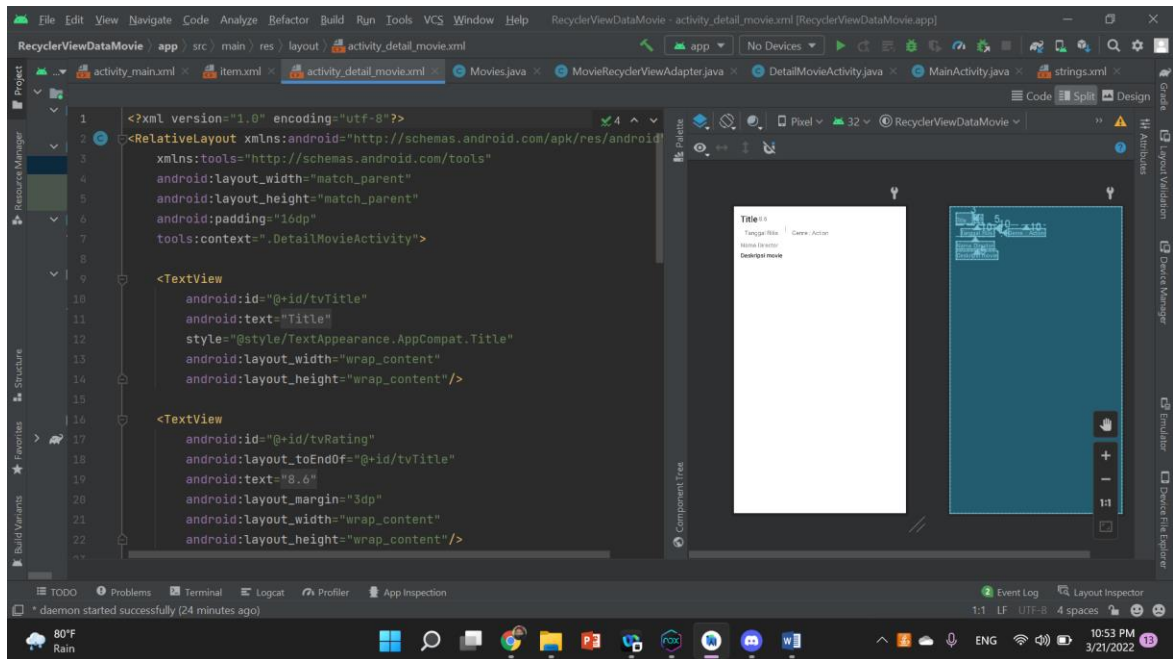


```
1 package com.project.recyclerviewdatamovie;
2
3 import ...
4
5
6
7
8 public class DetailMovieActivity extends AppCompatActivity {
9
10     TextView textViewTitle, textViewRating, textViewGenre, textViewReleaseDate, textViewDirector, textViewDescription;
11
12
13     @Override
14     protected void onCreate(Bundle savedInstanceState) {
15         super.onCreate(savedInstanceState);
16         setContentView(R.layout.activity_detail_movie);
17
18         textViewTitle = findViewById(R.id.tvTitle);
19         textViewRating = findViewById(R.id.tvRating);
20         textViewGenre = findViewById(R.id.tvGenre);
21         textViewReleaseDate = findViewById(R.id.tvReleaseDate);
22         textViewDirector = findViewById(R.id.tvDirector);
23         textViewDescription = findViewById(R.id.tvDescription);
24
25         Movies movies = getIntent().getParcelableExtra( name: "MOVIE");
26         textViewTitle.setText(movies.getTitle());
27         textViewRating.setText(String.valueOf(movies.getRating()));
28         textViewGenre.setText(movies.getGenre());
29     }
30 }
```

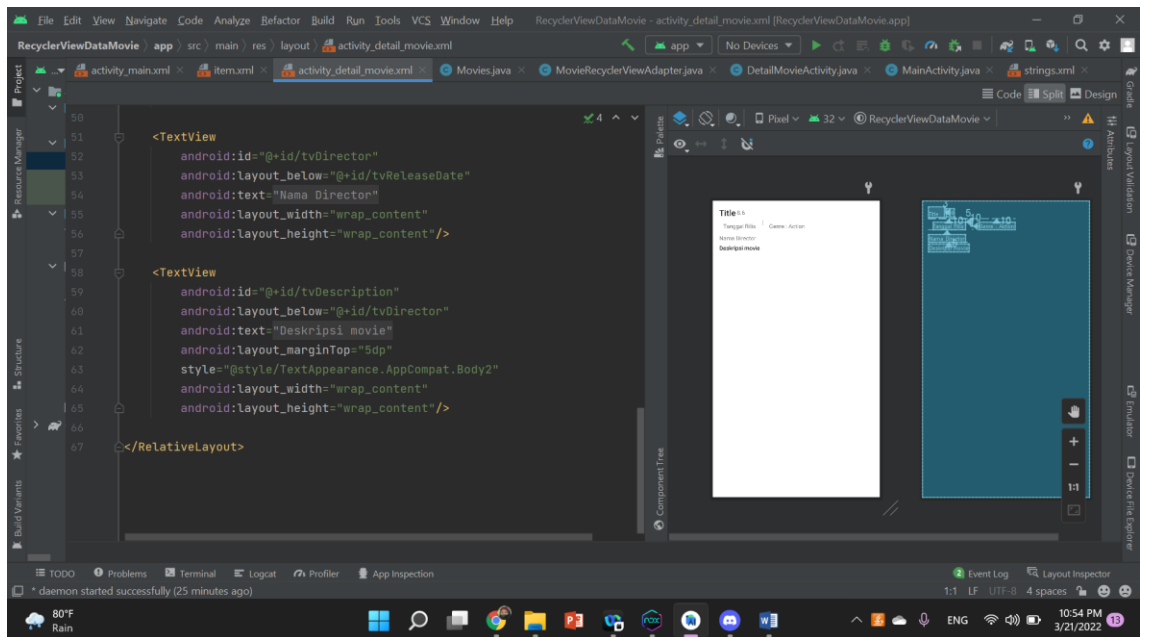
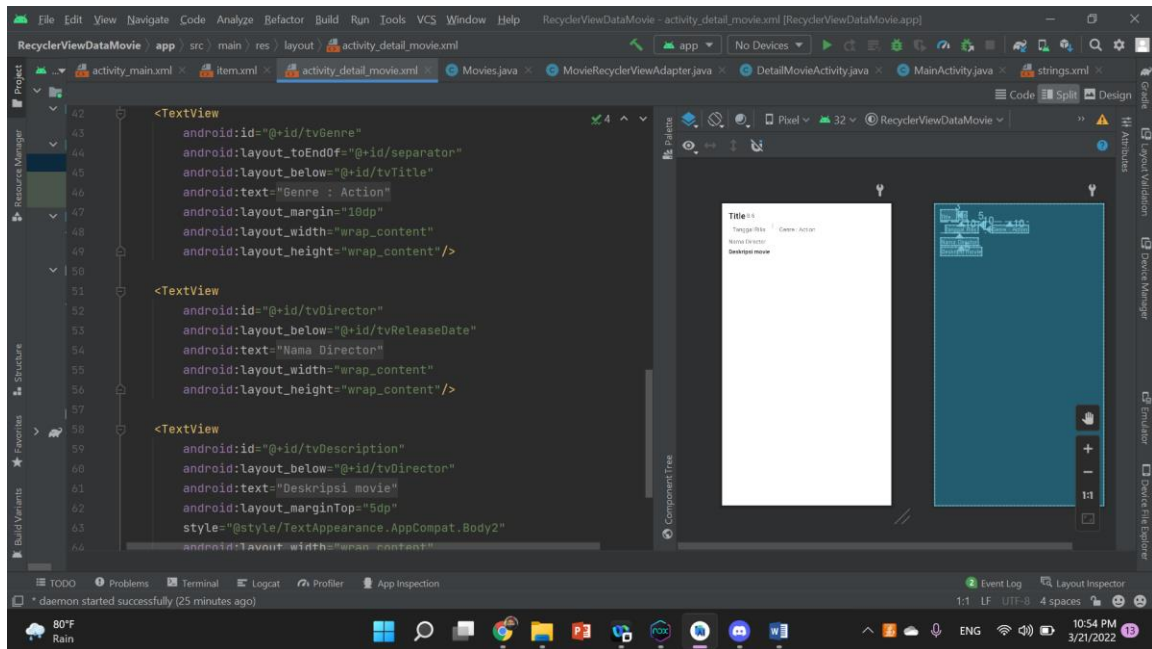


```
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```

7. Kemudian, tulis code ini juga ke file activity\_detail\_movie.xml yang filenya sudah otomatis terbentuk saat membuat file detail activity java tadi

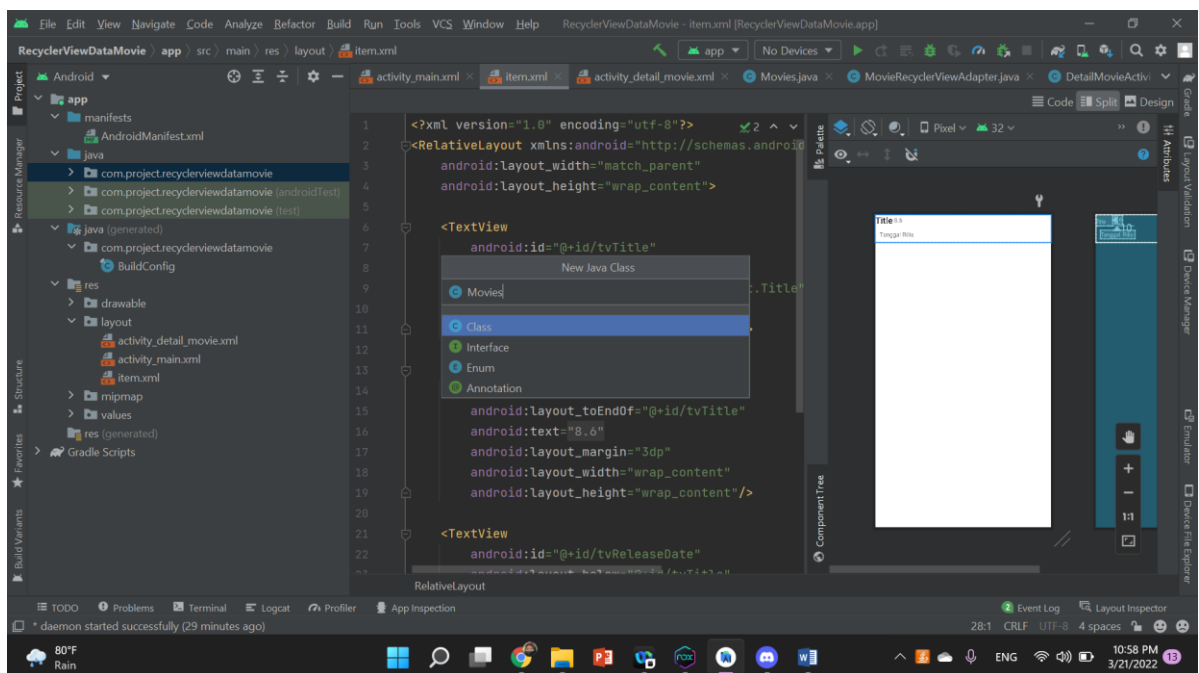
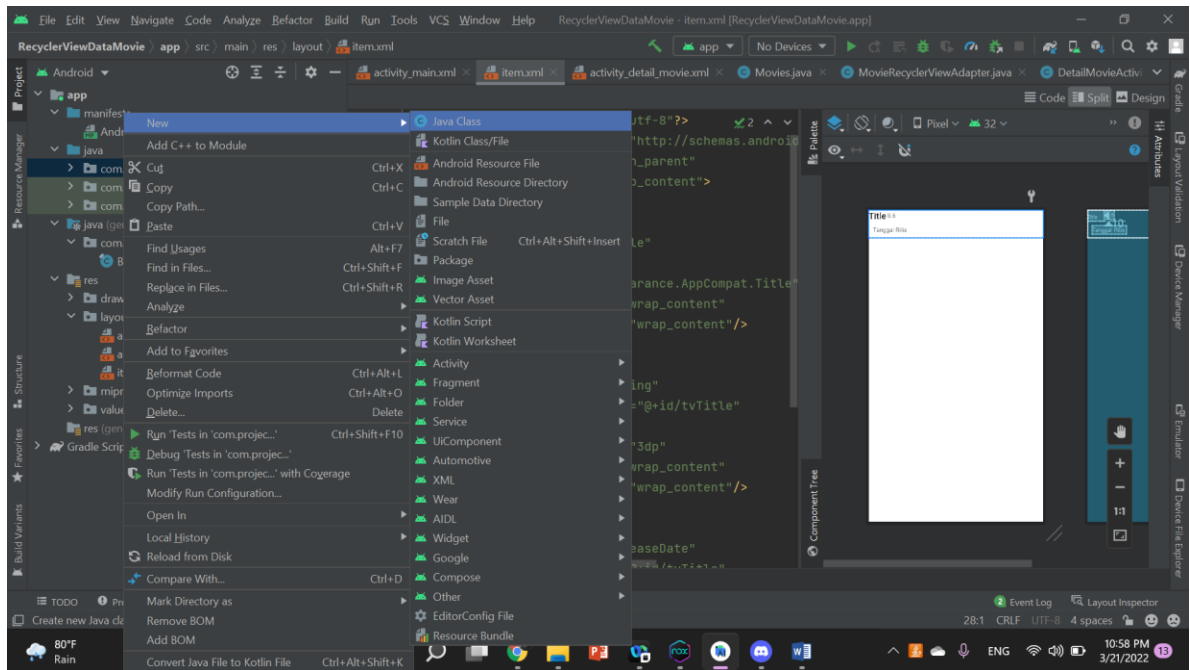






## 8. Buat Class Java Baru dengan nama ( Movies.java )





## 9. Tulis Code ini di Class Java terbaru

```
1 package com.project.recyclerviewdatamovie;
2
3
4 import ...
5
6 public class Movies implements Parcelable {
7     private String title;
8     private String genre;
9     private String director;
10    private double rating;
11    private String description;
12    private String releasedate;
13
14    public Movies(String title, String genre, String director, double rating, String description, String releasedate) {
15        this.title = title;
16        this.genre = genre;
17        this.director = director;
18        this.rating = rating;
19        this.description = description;
20        this.releasedate = releasedate;
21    }
22
23    public String getTitle() { return title; }
24
25    public void setTitle(String title) { this.title = title; }
26
27
28
29
30
```

RecyclerViewDataMovie - Movies.java [RecyclerViewDataMovie.app]

Project: activity\_main.xml, item.xml, activity\_detail\_movie.xml, Movies.java, MovieRecyclerViewAdapter.java, DetailMovieActivity.java, MainActivity.java, strings.xml

Resource Manager, Structure, Favorites, Build Variants

TODO, Problems, Terminal, Logcat, Profiler, App Inspection

\* daemon started successfully (31 minutes ago)

59:51 CRLF UTF-8 4 spaces

80°F Rain

10:59 PM 3/21/2022

```
26
27    public void setTitle(String title) { this.title = title; }
28
29    public String getGenre() { return genre; }
30
31    public void setGenre(String genre) { this.genre = genre; }
32
33    public String getDirector() { return director; }
34
35    public void setDirector(String director) { this.director = director; }
36
37    public double getRating() { return rating; }
38
39    public void setRating(double rating) { this.rating = rating; }
40
41    public String getDescription() { return description; }
42
43    public void setDescription(String description) {
44        this.description = description;
45    }
46
47    public String getReleasedate() { return releasedate; }
48
49    public void setReleasedate(String releasedate) { this.releasedate = releasedate; }
50
51
52
53
54
55
56
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58
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61
62
63
64
65
66
67
68
69
70
```

RecyclerViewDataMovie - Movies.java [RecyclerViewDataMovie.app]

Project: activity\_main.xml, item.xml, activity\_detail\_movie.xml, Movies.java, MovieRecyclerViewAdapter.java, DetailMovieActivity.java, MainActivity.java, strings.xml

Resource Manager, Structure, Favorites, Build Variants

TODO, Problems, Terminal, Logcat, Profiler, App Inspection

\* daemon started successfully (31 minutes ago)

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```
RecyclerViewDataMovie - Movies.java [RecyclerViewDataMovie.app]
RecyclerViewDataMovie > app > src > main > java > com > project > recyclerviewdatamovie > Movies
public String getReleasedate() { return releasedate; }

public void setReleasedate(String releasedate) { this.releasedate = releasedate; }

public static Creator<Movies> getCREATOR() { return CREATOR; }

@Override
public int describeContents() { return 0; }

@Override
public void writeToParcel(Parcel dest, int flags) {
    dest.writeString(this.title);
    dest.writeString(this.genre);
    dest.writeString(this.director);
    dest.writeDouble(this.rating);
    dest.writeString(this.description);
    dest.writeString(this.releasedate);
}

public void readFromParcel(Parcel source) {
    this.title = source.readString();
    this.genre = source.readString();
    this.director = source.readString();
    this.rating = source.readDouble();
}
```

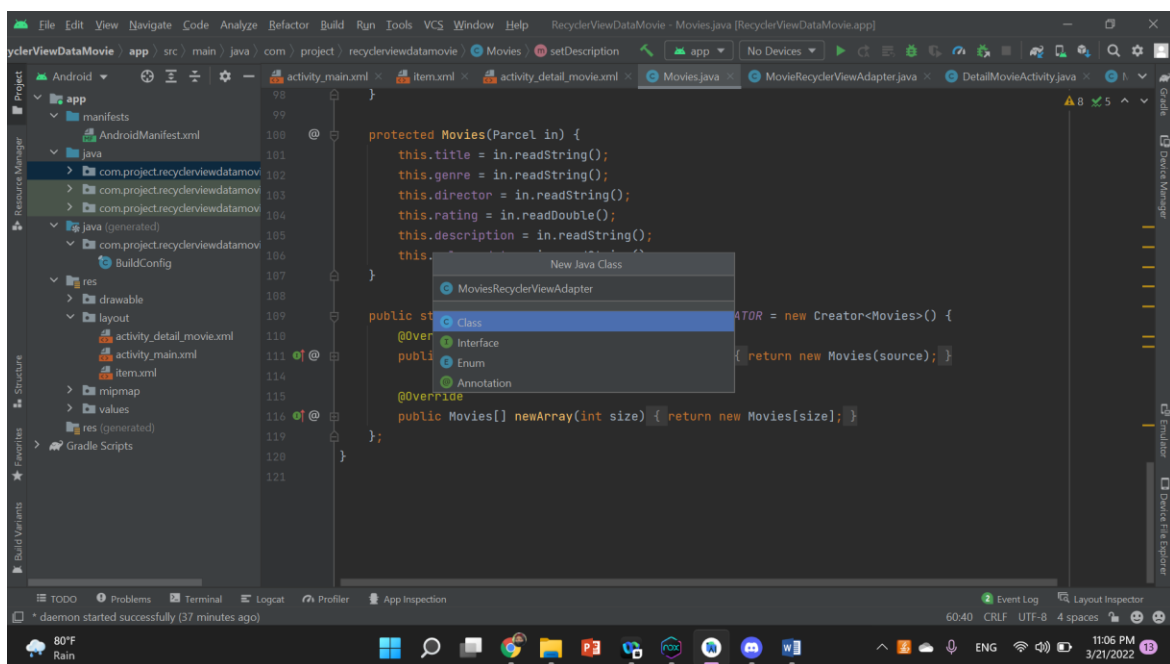
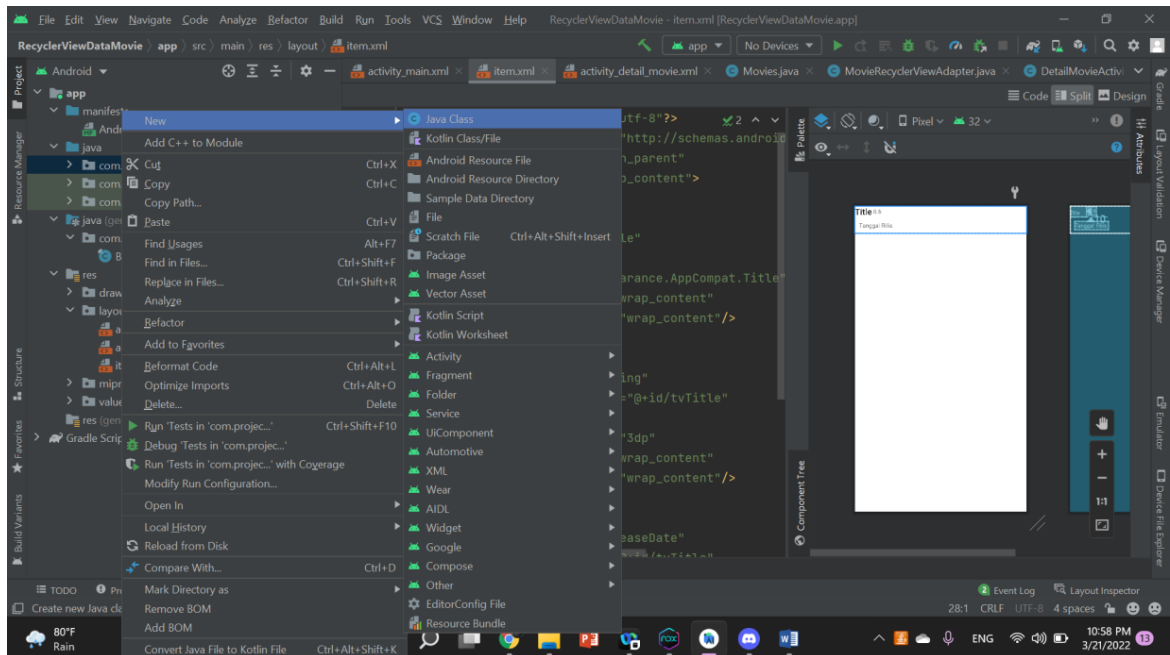
```
RecyclerViewDataMovie - Movies.java [RecyclerViewDataMovie.app]
RecyclerViewDataMovie > app > src > main > java > com > project > recyclerviewdatamovie > Movies
this.rating = source.readDouble();
this.description = source.readString();
this.releasedate = source.readString();
}

protected Movies(Parcel in) {
    this.title = in.readString();
    this.genre = in.readString();
    this.director = in.readString();
    this.rating = in.readDouble();
    this.description = in.readString();
    this.releasedate = in.readString();
}

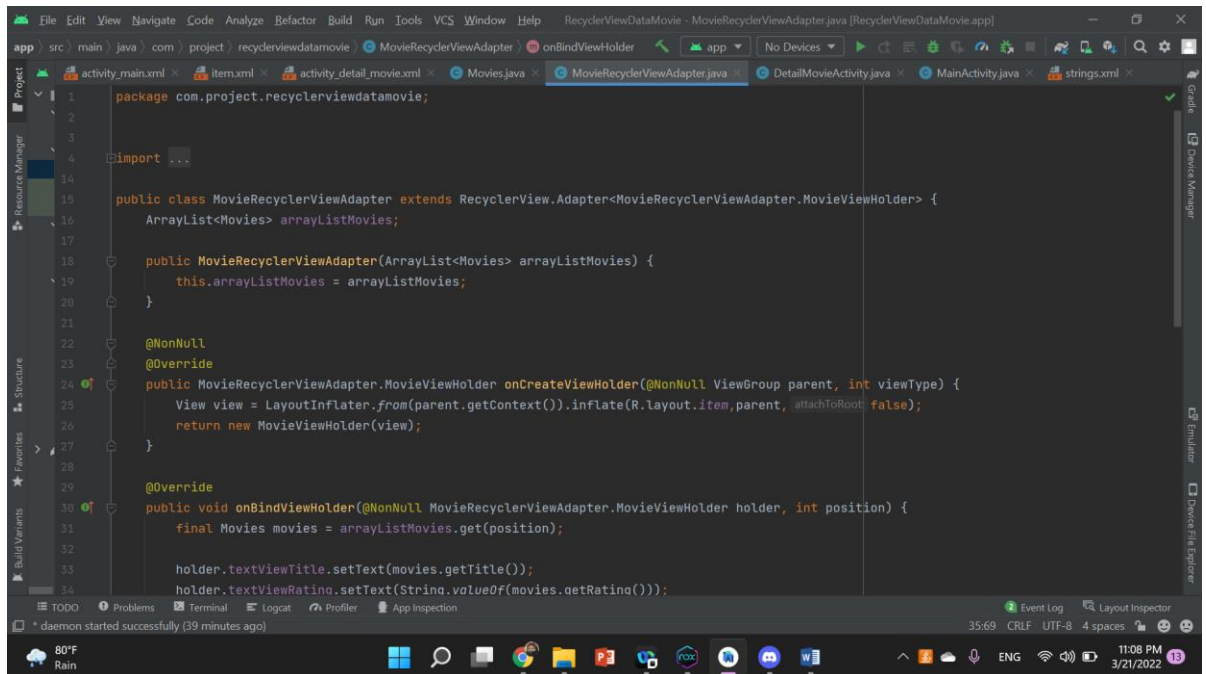
public static final Parcelable.Creator<Movies> CREATOR = new Creator<Movies>() {
    @Override
    public Movies createFromParcel(Parcel source) { return new Movies(source); }

    @Override
    public Movies[] newArray(int size) { return new Movies[size]; }
};
```

**10. Buat Class Java Baru Lagi untuk Adapter dengan nama  
MoviesRescylerViewAdapter**



**11. Tulisan Code ini di dalam file MoviesRecyclerViewAdapter**



```
package com.project.recyclerviewdatamovie;

import ...

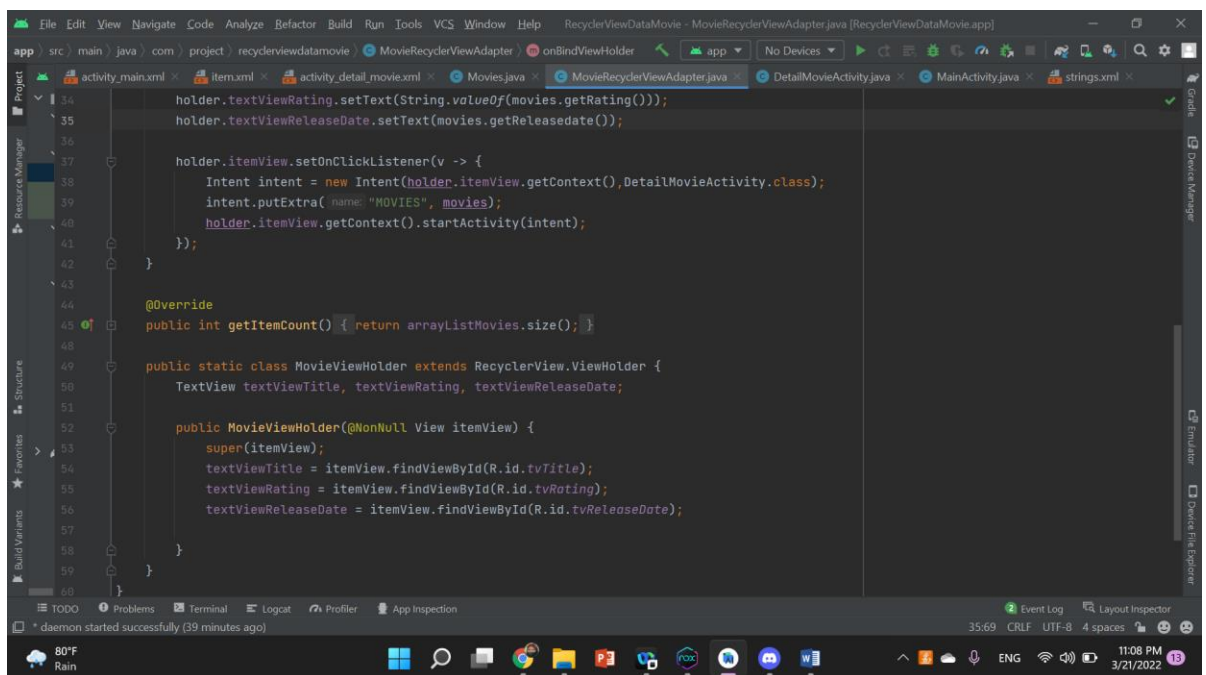
public class MovieRecyclerViewAdapter extends RecyclerView.Adapter<MovieRecyclerViewAdapter.MovieViewHolder> {
    ArrayList<Movies> arrayListMovies;

    public MovieRecyclerViewAdapter(ArrayList<Movies> arrayListMovies) {
        this.arrayListMovies = arrayListMovies;
    }

    @NonNull
    @Override
    public MovieRecyclerViewAdapter.MovieViewHolder onCreateViewHolder(@NonNull ViewGroup parent, int viewType) {
        View view = LayoutInflater.from(parent.getContext()).inflate(R.layout.item, parent, attachToRoot: false);
        return new MovieViewHolder(view);
    }

    @Override
    public void onBindViewHolder(@NonNull MovieRecyclerViewAdapter.MovieViewHolder holder, int position) {
        final Movies movies = arrayListMovies.get(position);

        holder.textViewTitle.setText(movies.getTitle());
        holder.textViewRating.setText(String.valueOf(movies.getRating()));
    }
}
```



```
holder.textViewRating.setText(String.valueOf(movies.getRating()));
holder.textViewReleaseDate.setText(movies.getReleasedate());

holder.itemView.setOnClickListener(v -> {
    Intent intent = new Intent(holder.itemView.getContext(), DetailMovieActivity.class);
    intent.putExtra("name: MOVIES", movies);
    holder.itemView.getContext().startActivity(intent);
});

@Override
public int getItemCount() { return arrayListMovies.size(); }

public static class MovieViewHolder extends RecyclerView.ViewHolder {
    TextView textViewTitle, textViewRating, textViewReleaseDate;

    public MovieViewHolder(@NonNull View itemView) {
        super(itemView);
        textViewTitle = itemView.findViewById(R.id.tvTitle);
        textViewRating = itemView.findViewById(R.id.tvRating);
        textViewReleaseDate = itemView.findViewById(R.id.tvReleaseDate);
    }
}
```

12. Kemudian Masukkan Code ini ke file MainActivity.Java. dan juga input list film yang mau di tampilkan.



```
package com.project.recyclerviewdatamovie;

import androidx.appcompat.app.AppCompatActivity;
import androidx.recyclerview.widget.RecyclerView;
import androidx.recyclerview.widget.RecyclerView.Adapter;
import androidx.recyclerview.widget.RecyclerView.ViewHolder;
import java.util.ArrayList;

public class MainActivity extends AppCompatActivity {

    RecyclerView recyclerView;
    MovieRecyclerViewAdapter adapter;
    ArrayList<Movies> objMovies = new ArrayList<>();
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        recyclerView = findViewById(R.id.recyclerView);

        objMovies.add(new Movies( title: "Ecanto", genre: "Animation, Comedy, Family", director: "Jared Bush, Byron Howard, Charise Castro Smith", rating: 8.7, description: "When a young girl is chosen to become a dragon rider, she must learn to control her powers and save the world from a powerful enemy."));
        objMovies.add(new Movies( title: "Raya and the Last Dragon", genre: "Animation, Action, Adventure", director: "Don Hall, Carlos López Estrada", rating: 8.7, description: "A young girl is chosen to become a dragon rider, she must learn to control her powers and save the world from a powerful enemy."));
        objMovies.add(new Movies( title: "Stranger Things", genre: "Drama, Fantasy, Horror", director: "Shawn Levy", rating: 8.7, description: "When a young boy disappears, his mother, a police chief and his friends must confront terrifying supernatural forces in order to get him back."));
        objMovies.add(new Movies( title: "Eternal's", genre: "Action, Adventure, Fantasy", director: "Chloé Zhao", rating: 6.4, description: "The saga of the Eternals, a team of powerful beings who have lived on Earth since the beginning of time."));
        objMovies.add(new Movies( title: "Spider-Man: No Way Home", genre: "Action, Adventure, Fantasy", director: "Jon Watts", rating: 8.6, description: "With the help of Doctor Strange, Spider-Man must reunite with his former allies to defeat a powerful enemy."));

        adapter = new MovieRecyclerViewAdapter(objMovies);
        recyclerView.setAdapter(adapter);
        recyclerView.setLayoutManager(new LinearLayoutManager( context: MainActivity.this));
    }
}
```

```
package com.project.recyclerviewdatamovie;

import androidx.appcompat.app.AppCompatActivity;
import androidx.recyclerview.widget.RecyclerView;
import androidx.recyclerview.widget.RecyclerView.Adapter;
import androidx.recyclerview.widget.RecyclerView.ViewHolder;
import java.util.ArrayList;

public class MainActivity extends AppCompatActivity {

    RecyclerView recyclerView;
    MovieRecyclerViewAdapter adapter;
    ArrayList<Movies> objMovies = new ArrayList<>();
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

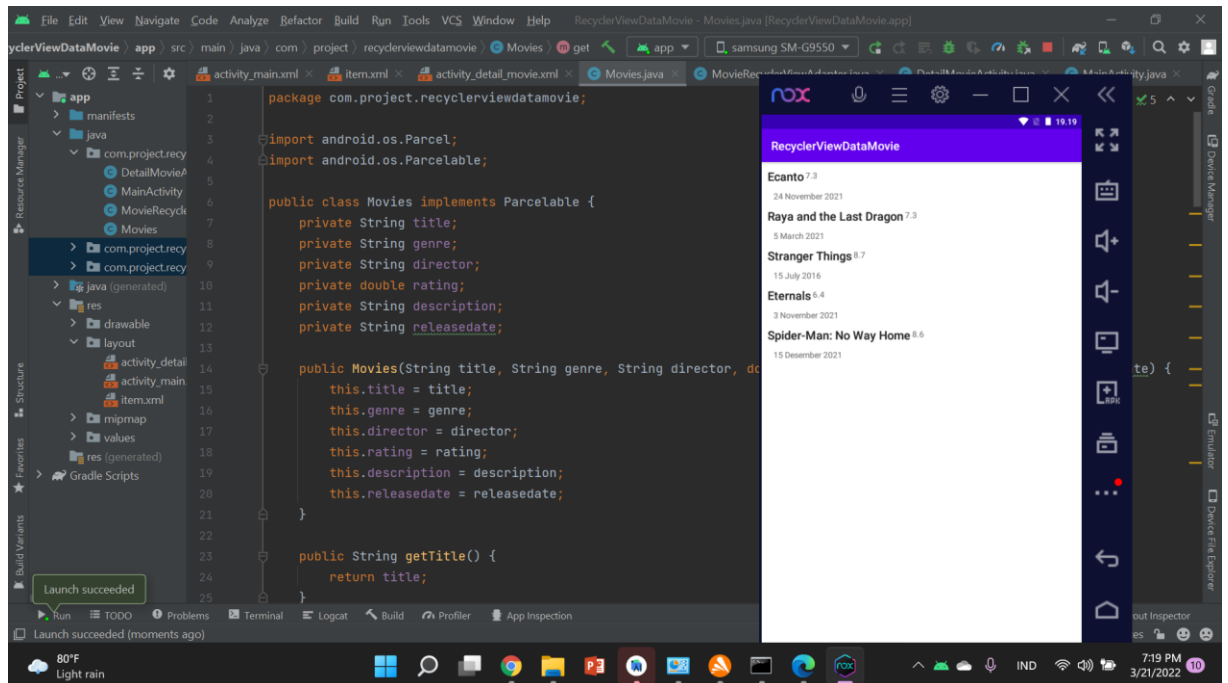
        recyclerView = findViewById(R.id.recyclerView);

        objMovies.add(new Movies( title: "Ecanto", genre: "Animation, Comedy, Family", director: "Jared Bush, Byron Howard, Charise Castro Smith", rating: 8.7, description: "When a young girl is chosen to become a dragon rider, she must learn to control her powers and save the world from a powerful enemy."));
        objMovies.add(new Movies( title: "Raya and the Last Dragon", genre: "Animation, Action, Adventure", director: "Don Hall, Carlos López Estrada", rating: 8.7, description: "A young girl is chosen to become a dragon rider, she must learn to control her powers and save the world from a powerful enemy."));
        objMovies.add(new Movies( title: "Stranger Things", genre: "Drama, Fantasy, Horror", director: "Shawn Levy", rating: 8.7, description: "When a young boy disappears, his mother, a police chief and his friends must confront terrifying supernatural forces in order to get him back."));
        objMovies.add(new Movies( title: "Eternal's", genre: "Action, Adventure, Fantasy", director: "Chloé Zhao", rating: 6.4, description: "The saga of the Eternals, a team of powerful beings who have lived on Earth since the beginning of time."));
        objMovies.add(new Movies( title: "Spider-Man: No Way Home", genre: "Action, Adventure, Fantasy", director: "Jon Watts", rating: 8.6, description: "With the help of Doctor Strange, Spider-Man must reunite with his former allies to defeat a powerful enemy."));

        adapter = new MovieRecyclerViewAdapter(objMovies);
        recyclerView.setAdapter(adapter);
        recyclerView.setLayoutManager(new LinearLayoutManager( context: MainActivity.this));
    }
}
```

### 13. Lalu Run File





Di Simulator akan muncul beberapa list film yang sudah di input tadi, dan jika di klik nanti akan muncul data dari Movie tersebut, namun mohon maaf untuk itu saya tidak bisa menampilkan hasilnya dikarenakan simulator saya yang setiap di click, dia Nge CRASH.