

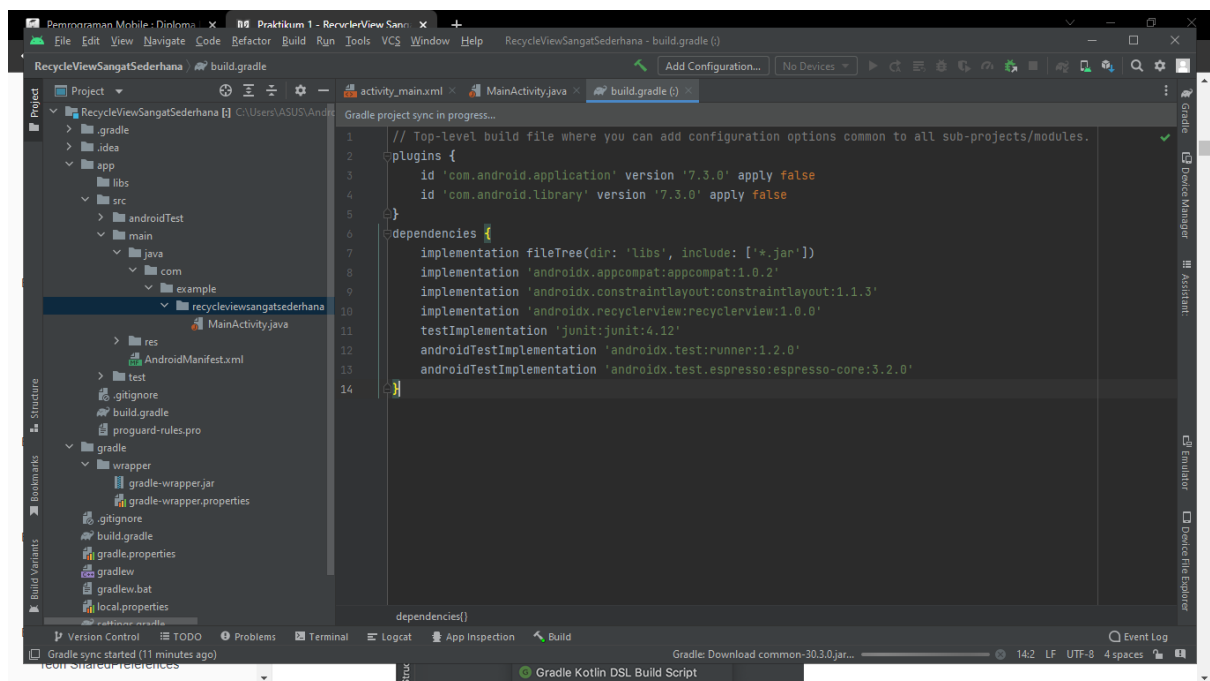


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Mata Kuliah Komputasi Awan
Pengampu: Tim Ajar Komputasi Awan
September 2022

Nama	:	Satria Alief Pratama Sofyan
Nim	:	2041720183
Kelas	:	TI - 3A

Praktikum 1

Mengisi dependency recyclerview



Membuat package models



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```
package models;

public class SuperHero {
    public String heroName;

    public SuperHero(String heroName) {
        this.heroName = heroName;
    }

    public String getHeroName() {
        return heroName;
    }

    public void setHeroName(String heroName) {
        this.heroName = heroName;
    }
}
```

Membuat dan mengisi class SuperHero

```
package models;

public class SuperHero {
    public String heroName;

    public SuperHero(String heroName) {
        this.heroName = heroName;
    }

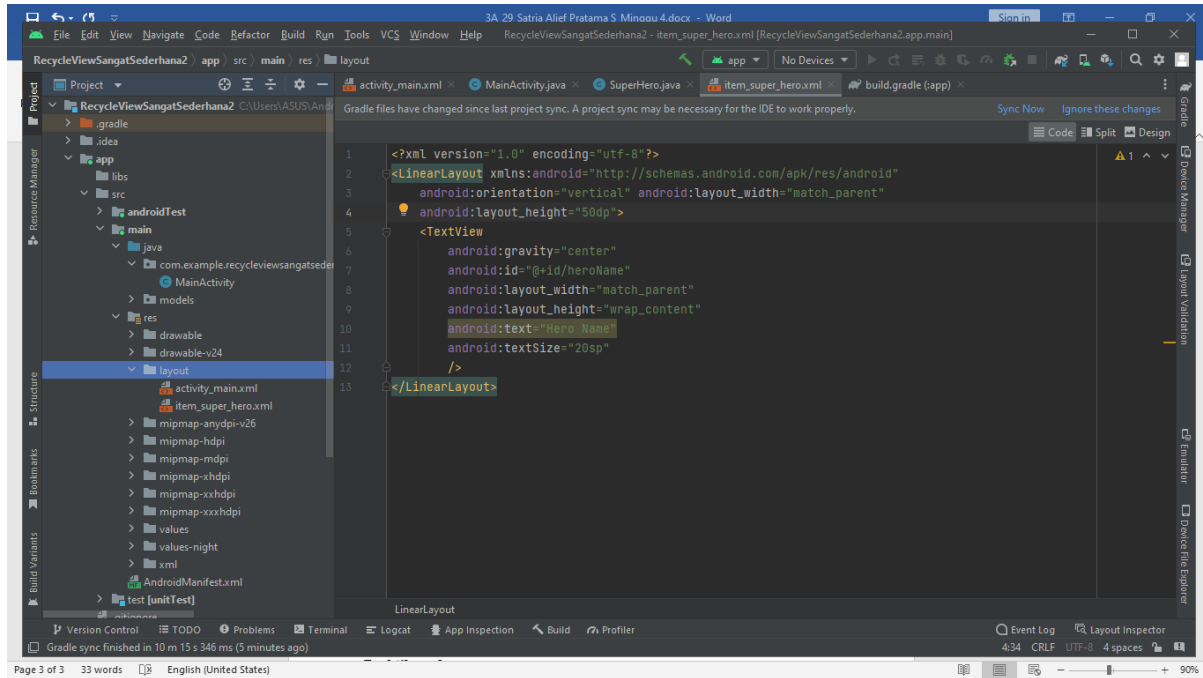
    public String getHeroName() {
        return heroName;
    }

    public void setHeroName(String heroName) {
        this.heroName = heroName;
    }
}
```

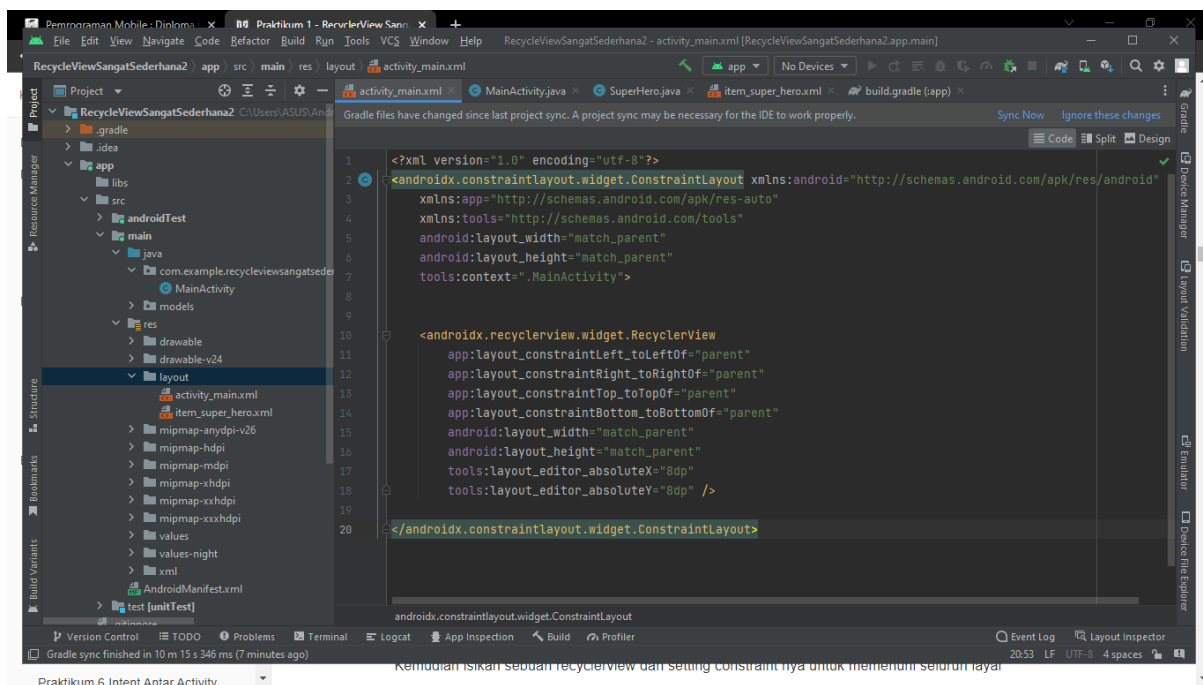
Membuat dan mengisi layout baru



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Mengganti activity_main.xml



Preview design

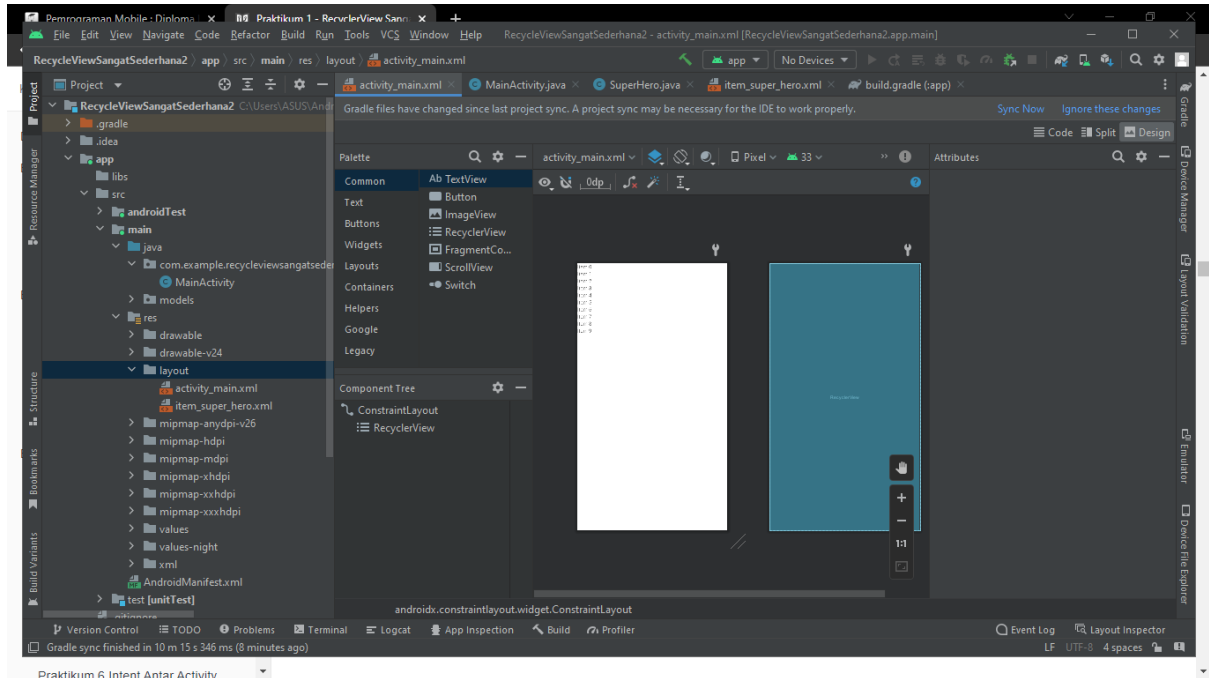


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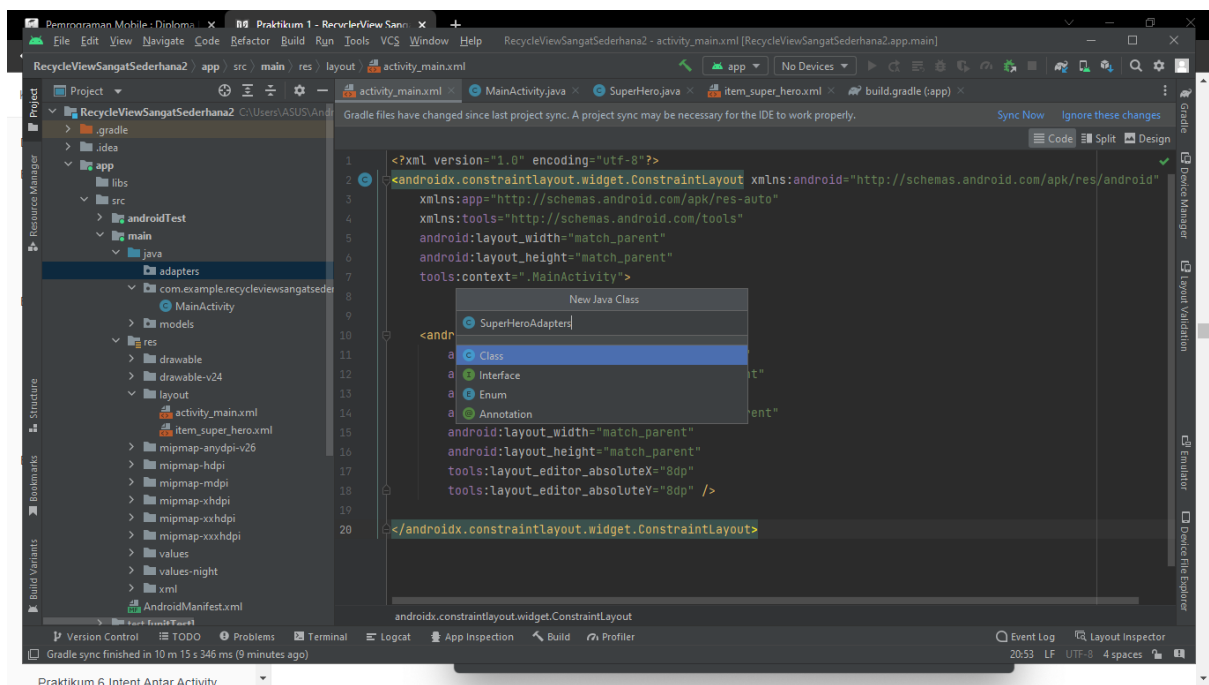
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Membuat package dan class adapters



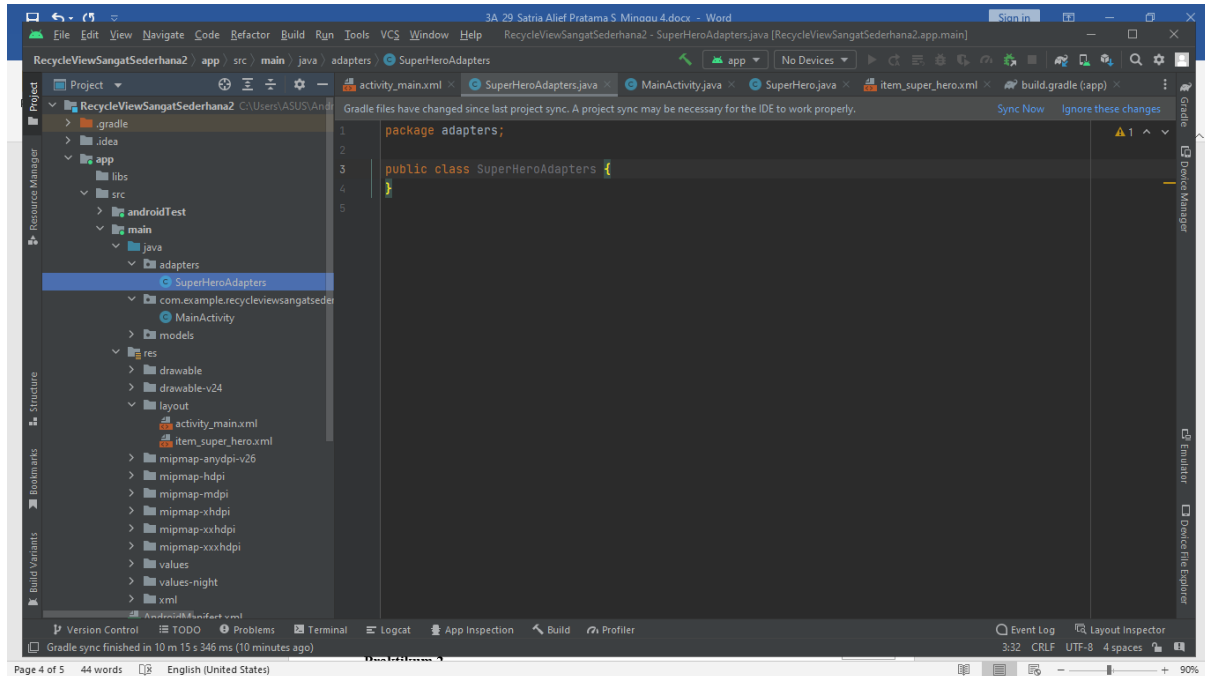


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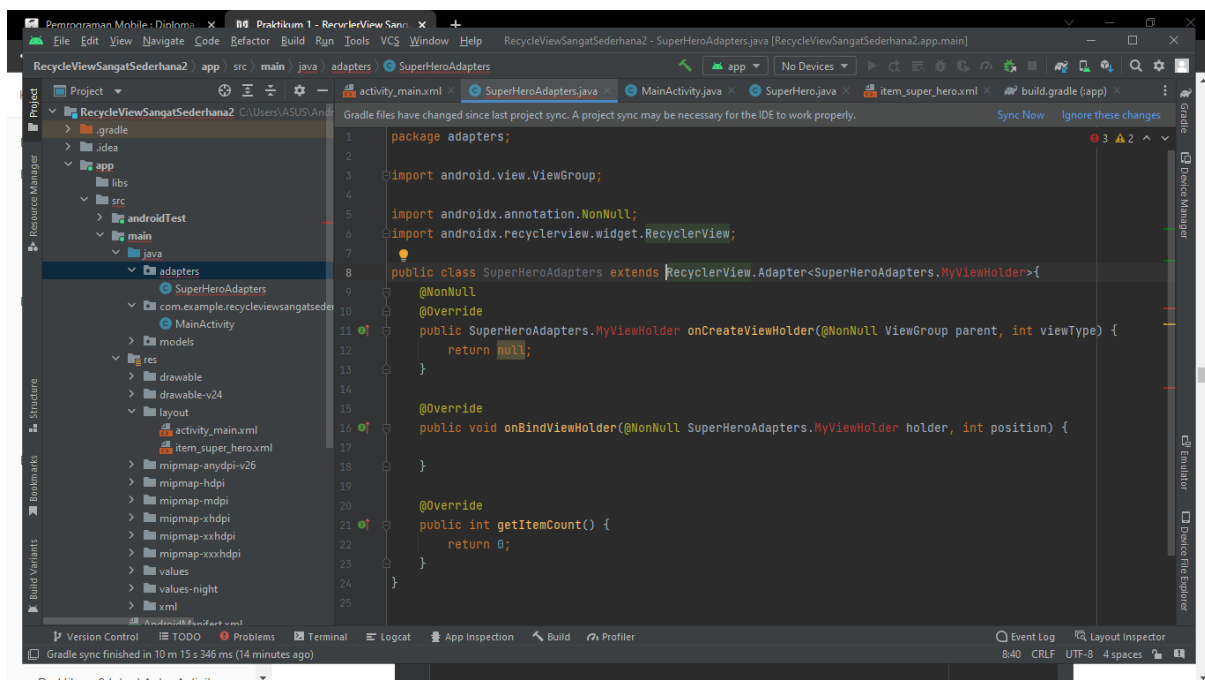
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Meng-extend dan implement method



Membuat class MyViewHolder dan membuat class MyViewHolder extend recycleview



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```
package adapters;

import android.view.ViewGroup;
import androidx.annotation.NonNull;
import androidx.recyclerview.widget.RecyclerView;

public class SuperHeroAdapters extends RecyclerView.Adapter<SuperHeroAdapters.MyViewHolder>{

    public void onCreateViewHolder(@NonNull ViewGroup parent, int viewType) {

    }

    public void onBindViewHolder(@NonNull SuperHeroAdapters.MyViewHolder holder, int position) {

    }

    @Override
    public int getItemCount() {
        return 0;
    }
}
```

```
package adapters;

import android.view.ViewGroup;
import androidx.annotation.NonNull;
import androidx.recyclerview.widget.RecyclerView;

public class SuperHeroAdapters extends RecyclerView.Adapter<SuperHeroAdapters.MyViewHolder>{

    public void onCreateViewHolder(@NonNull ViewGroup parent, int viewType) {

    }

    public void onBindViewHolder(@NonNull SuperHeroAdapters.MyViewHolder holder, int position) {

    }

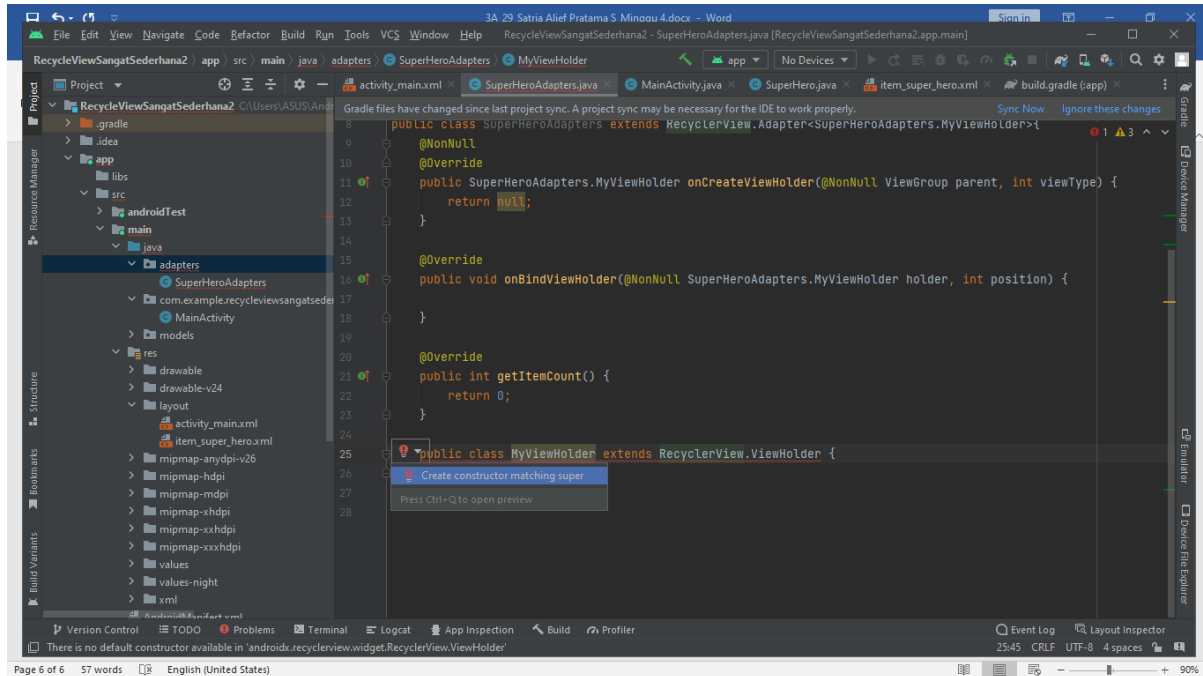
    @Override
    public int getItemCount() {
        return 0;
    }
}

public class MyViewHolder {
}
```

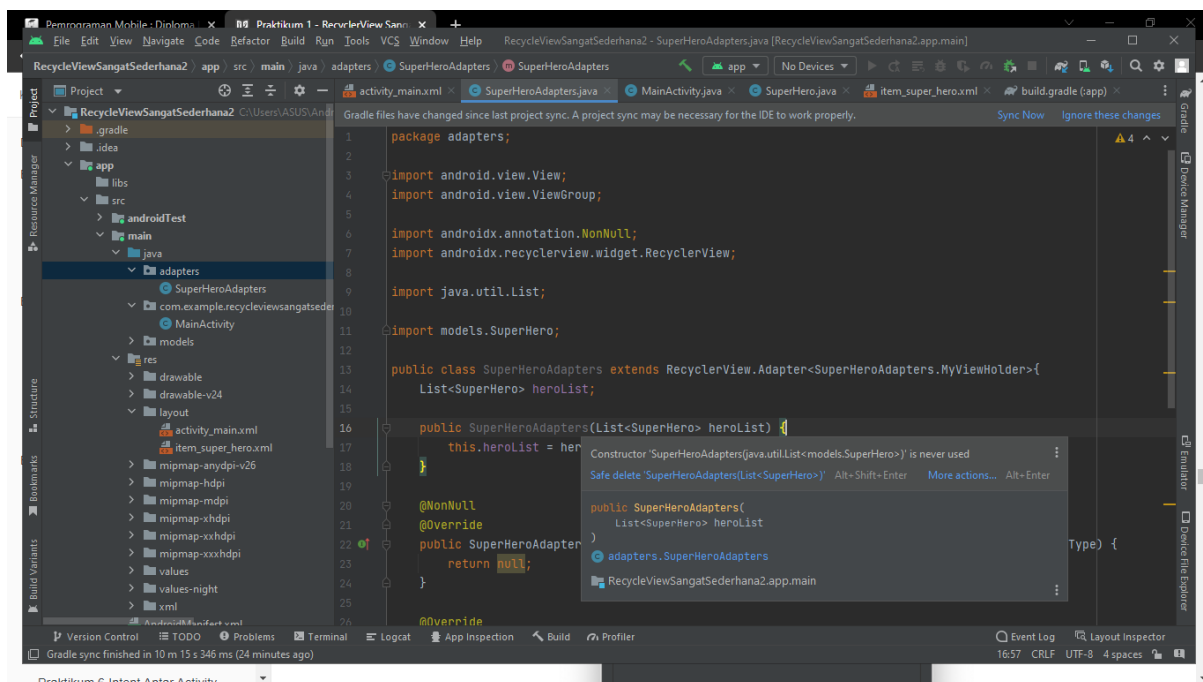
Membuat constructor matching super



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Membuat list superhero



Membuat inner class viewholder



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```
import androidx.annotation.NonNull;
import androidx.recyclerview.widget.RecyclerView;

import java.util.List;

import models.SuperHero;

public class SuperHeroAdapters extends RecyclerView.Adapter<SuperHeroAdapters.MyViewHolder>{
    List<SuperHero> heroList;

    public SuperHeroAdapters(List<SuperHero> heroList) {
        this.heroList = heroList;
    }

    public class MyViewHolder extends RecyclerView.ViewHolder {
        public TextView heroName;
        public MyViewHolder(@NonNull View itemView) {
            super(itemView);
            //variabel disesuaikan dengan layout, karena pada layout item_super_hero terdapat satu
            //TextView maka pada kode program ini dibuat satu TextView yang melakukan findViewById ke id layout
            heroName = itemView.findViewById(R.id.heroName);
        }
    }

    @NonNull
    @Override
    public SuperHeroAdapters.MyViewHolder onCreateViewHolder(@NonNull ViewGroup parent, int viewType) {
```

Membuat get item count

```
@Override
public void onBindViewHolder(@NonNull SuperHeroAdapters.MyViewHolder holder, int position) {
}

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

public class MyViewHolder extends RecyclerView.ViewHolder {
    public MyViewHolder(@NonNull View itemView) {
        super(itemView);
        //variabel disesuaikan dengan layout, karena pada layout item_super_hero terdapat satu
        //TextView maka pada kode program ini dibuat satu TextView yang melakukan findViewById ke id layout
        TextView heroName = itemView.findViewById(R.id.heroName);
    }
}
```

Membuat onbindviewholder



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```
public class SuperHeroAdapter extends RecyclerView.Adapter<SuperHeroAdapter.MyViewHolder> {  
    List<SuperHero> heroList;  
  
    public SuperHeroAdapter(List<SuperHero> heroList) {  
        this.heroList = heroList;  
    }  
  
    @NonNull  
    @Override  
    public SuperHeroAdapter.MyViewHolder onCreateViewHolder(@NonNull ViewGroup parent, int viewType) {  
        Context context = parent.getContext();  
        LayoutInflater inflater = LayoutInflater.from(context);  
        View superHeroView = inflater.inflate(R.layout.item_super_hero, parent, attachToRoot false);  
        MyViewHolder viewHolder = new MyViewHolder(superHeroView);  
        return viewHolder;  
    }  
  
    @Override  
    public void onBindViewHolder(@NonNull SuperHeroAdapter.MyViewHolder holder, int position) {  
        //ambil satu item hero  
        SuperHero hero = heroList.get(position);  
        //set text heroName berdasarkan data dari model hero  
        holder.heroName.setText(hero.getHeroName());  
    }  
  
    @Override  
    protected void onCreate(Bundle savedInstanceState) {  
        // ...  
    }  
}
```

Instansiasi recycleview

```
package com.example.recycleviewsangatsederhana2;  
  
import ...  
  
public class MainActivity extends AppCompatActivity {  
    //instansiasi RecyclerView  
    RecyclerView rvSuperHero;  
  
    @Override  
    protected void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
        setContentView(R.layout.activity_main);  
        //menyambungkan rvSuperHero ke layout  
        rvSuperHero = findViewById(R.id.rvSuperHero);  
    }  
}
```

Instansiasi model



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```
13 public class MainActivity extends AppCompatActivity {
14     //instansiasi RecyclerView
15     RecyclerView rvSuperHero;
16     //instansiasi list superhero
17     List<SuperHero> listSuperHero = new ArrayList<>();
18     @Override
19     protected void onCreate(Bundle savedInstanceState) {
20         super.onCreate(savedInstanceState);
21         setContentView(R.layout.activity_main);
22         //menyambungkan rvSuperHero ke layout
23         rvSuperHero = findViewById(R.id.rvSuperHero);
24         //Membuat object hero
25         SuperHero hero = new SuperHero( heroName: "Petruk");
26         //menambahkan hero ke listSuperHero
27         listSuperHero.add(hero);
28         //membuat object hero baru
29         hero = new SuperHero( heroName: "Gareng");
30         //menambahkan hero baru ke listSuperHero
31         listSuperHero.add(hero);
32     }
33 }
```

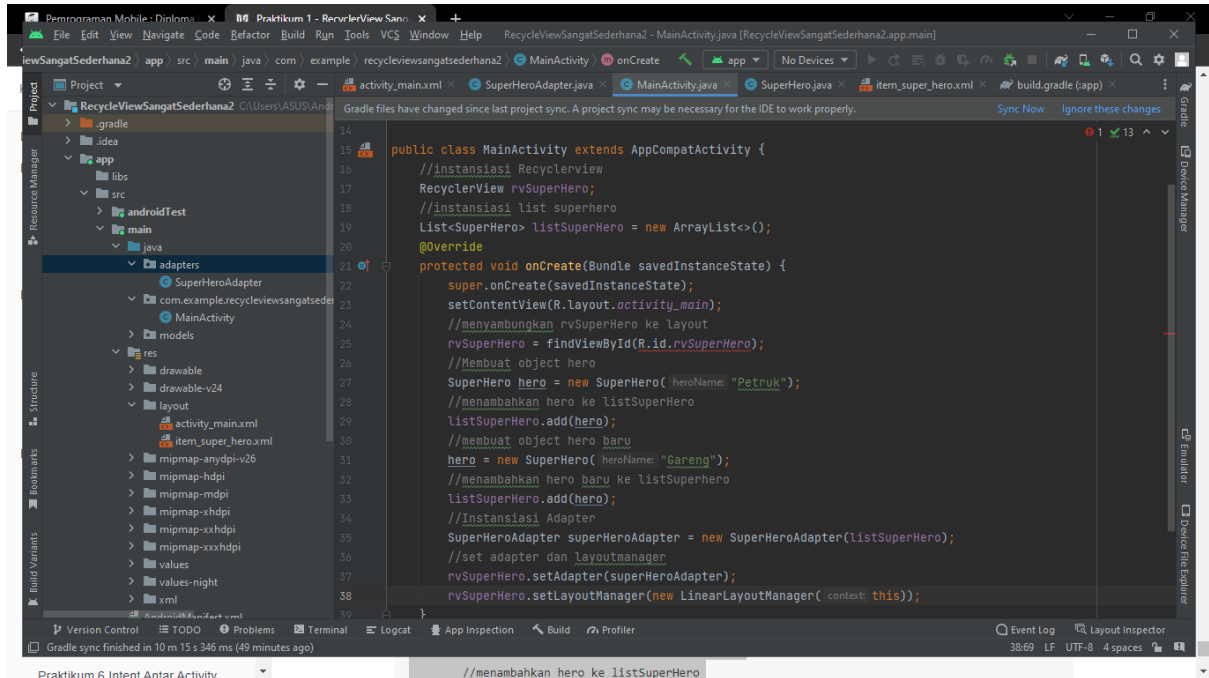
Instansiasi adapter

```
13 public class MainActivity extends AppCompatActivity {
14     //instansiasi RecyclerView
15     RecyclerView rvSuperHero;
16     //instansiasi list superhero
17     List<SuperHero> listSuperHero = new ArrayList<>();
18     @Override
19     protected void onCreate(Bundle savedInstanceState) {
20         super.onCreate(savedInstanceState);
21         setContentView(R.layout.activity_main);
22         //menyambungkan rvSuperHero ke layout
23         rvSuperHero = findViewById(R.id.rvSuperHero);
24         //Membuat object hero
25         SuperHero hero = new SuperHero( heroName: "Petruk");
26         //menambahkan hero ke listSuperHero
27         listSuperHero.add(hero);
28         //membuat object hero baru
29         hero = new SuperHero( heroName: "Gareng");
30         //menambahkan hero baru ke listSuperHero
31         listSuperHero.add(hero);
32         //instansiasi Adapter
33         SuperHeroAdapter superHeroAdapter = new SuperHeroAdapter(listSuperHero);
34     }
35 }
```

Set adapter dan layout manager

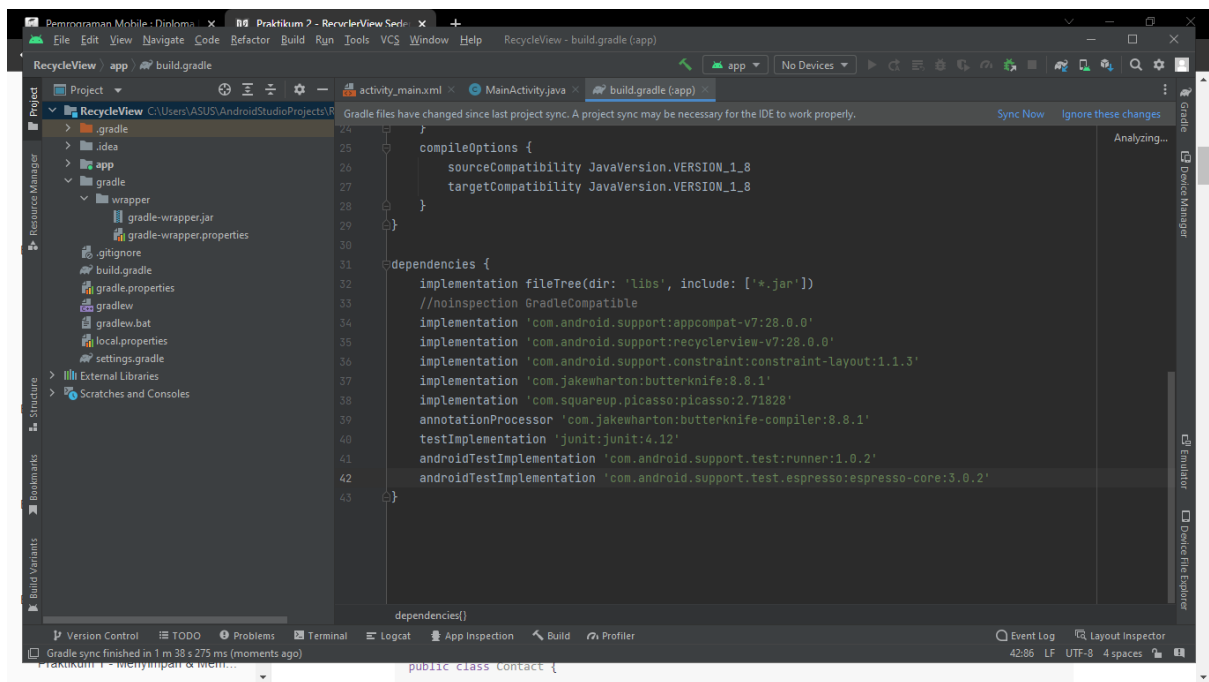


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Praktikum 2

Memberikan dependency gradle



Membuat class contact



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```
package com.example.recycleview;

public class Contact {

    private String name;
    private String phone;
    private String imageUrl;

    public Contact(String name, String phone, String imageUrl) {
        this.name = name;
        this.phone = phone;
        this.imageUrl = imageUrl;
    }

    public String getName() {
        return name;
    }

    public void setName(String name) {
        this.name = name;
    }

    public String getPhone() {
        return phone;
    }

    public void setPhone(String phone) {
```

Membuat layout pada main activity

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res-auto"
    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">

    <android.support.v7.widget.RecyclerView
        android:id="@+id/rvContact"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_marginBottom="8dp"
        android:layout_marginEnd="8dp"
        android:layout_marginStart="8dp"
        android:layout_marginTop="8dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"></android.support.v7.widget.RecyclerView>

</androidx.constraintlayout.widget.ConstraintLayout>
```



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Membuat Layout khusus recyclerview

