RecyclerView-

ActivityMain.java-

```
package com.madlab.recyclerview;
import androidx.appcompat.app.AppCompatActivity;
import androidx.recyclerview.widget.LinearLayoutManager;
import androidx.recyclerview.widget.RecyclerView;
import android.os.Bundle;

public class MainActivity extends AppCompatActivity {

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

    MyListData[] myListData = new MyListData[] {
            new MyListData("Info", android.R.drawable.ic_dialog_email),
            new MyListData("Info", android.R.drawable.ic_dialog_info),
            new MyListData("Delete", android.R.drawable.ic_dialog_alert),
            new MyListData("Map", android.R.drawable.ic_dialog_alert),
            new MyListData("Email", android.R.drawable.ic_dialog_email),
            new MyListData("Email", android.R.drawable.ic_dialog_email),
            new MyListData("Info", android.R.drawable.ic_dialog_email),
            new MyListData("Info", android.R.drawable.ic_dialog_email),
            new MyListData("Info", android.R.drawable.ic_dialog_alert),
            new MyListData("Delete", android.R.drawable.ic_dialog_dialer),
            new MyListData("Info", android.R.drawable.ic_dialog_dialer),
            new MyListData("Map", andro
```

MyListAdapter.java-

```
package com.madlab.recyclerview;

import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.ImageView;
import android.widget.RelativeLayout;
import android.widget.TextView;
import android.widget.Toast;

import android.recyclerview.widget.RecyclerView;

public class MyListAdapter extends RecyclerView.Adapter<MyListAdapter.ViewHolder>{
    private MyListData[] listdata;

    // RecyclerView recyclerView;
    public MyListAdapter (MyListData[] listdata) {
        this.listdata = listdata;
    }
}
```

```
public ViewHolder onCreateViewHolder(ViewGroup parent, int viewType) {
public int getItemCount() {
```

MyListData.java-

```
package com.madlab.recyclerview;

public class MyListData{
    private String description;
    private int imgId;
    public MyListData(String description, int imgId) {
        this.description = description;
        this.imgId = imgId;
    }
    public String getDescription() {
        return description;
    }
    public void setDescription(String description) {
        this.description = description;
    }
    public int getImgId() {
        return imgId;
    }
    public void setImgId(int imgId) {
```

```
this.imgId = imgId;
}
```

Activity main.xml-

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
    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:background="#161616"
    tools:context=".MainActivity">

    <androidx.recyclerview.widget.RecyclerView
        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:scrollbars="vertical"
        android:id="@+id/recyclerView"
        tools:context="example.javatpoint.com.recyclerviewlist.MainActivity"/>
</androidx.constraintlayout.widget.ConstraintLayout>
```

List items.xml-

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:id="@+id/relativeLayout"
    android:layout_width="match_parent"
    android:layout_height="?android:attr/listPreferredItemHeightLarge"
    android:background="@drawable/border">

<ImageView
        android:layout_width="wrap_content"
        android:layout_beight="wrap_content"
        android:layout_beight="wrap_content"
        android:layout_laignParentStart="true"
        android:layout_alignParentStart="true"
        android:layout_marginEnd="@dimen/activity_horizontal_margin"
        android:layout_marginEnd="@dimen/activity_horizontal_margin"
        android:layout_marginEnd="@dimen/activity_horizontal_margin"
        android:layout_width="wrap_content"
        android:layout_width="wrap_content"
        android:layout_beight="match_parent"
        android:layout_beight="match_parent"
        android:layout_toEndOf="@id/imageView"
        android:layout_toEndOf="@id/imageView"
        android:gravity="center_vertical"
        android:textColor="#fe3@39"
        android:textSize="16sp" />
```

Output-



SharedPrefrences-

ActivityMain.java-

```
package com.madlab.sharedpreference;
import androidx.appcompat.app.AppCompatActivity;
import android.content.SharedPreferences;
import android.os.Bundle;
import android.widget.EditText;
import android.widget.ImageView;

public class MainActivity extends AppCompatActivity {
    ImageView imageView;
    private EditText name, age;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        name = (EditText) findViewById(R.id.name);
        age = (EditText) findViewById(R.id.age);
    }
    @Override
```

```
protected void onResume() {
    super.onResume();
    SharedPreferences sh = getSharedPreferences("MySharedPref", MODE_PRIVATE);
    String s1 = sh.getString("name", "");
    int a = sh.getInt("age", 0);
    name.setText(s1);
    age.setText(String.valueOf(a));
}

@Override
protected void onPause() {
    super.onPause();
    SharedPreferences sharedPreferences = getSharedPreferences("MySharedPref", MODE_PRIVATE);

    SharedPreferences.Editor myEdit = sharedPreferences.edit();
    myEdit.putString("name", name.getText().toString());
    myEdit.putInt("age", Integer.parseInt(age.getText().toString()));
    myEdit.apply();
}
```

Activity main.xml-

```
<TextView
    android:text="Shared Preference"
   android:textColor="@color/black"
   android:textSize="34sp"
<EditText
```

Output-

