

**MainActivity.java**

```
package com.example.lab12;

import androidx.appcompat.app.AppCompatActivity;
import androidx.recyclerview.widget.LinearLayoutManager;
import androidx.recyclerview.widget.RecyclerView;

import android.os.Bundle;

import java.util.ArrayList;
import java.util.List;

public class MainActivity extends AppCompatActivity {
    RecyclerView recyclerView;
    LinearLayoutManager layoutManager;
    List<ModelClass> userList;
    Adapter adapter;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        initData();
        initRecyclerView();

    }

    private void initData() {

        userList = new ArrayList<>();

        userList.add(new ModelClass(R.drawable.defaultjob,"Anjali","10:45 AM",
        "How are you?","_____"));

        userList.add(new ModelClass(R.drawable.defaultjob,"Job","11:43 AM", "I'm
        fine","_____"));

        userList.add(new ModelClass(R.drawable.defaultjob,"San","01:43 AM",
        "Coming?","_____"));
    }
}
```

```

        userList.add(new ModelClass(R.drawable.defaultjob,"Dam","10:45 AM",
"Let/'sgo", "_____"));

        userList.add(new ModelClass(R.drawable.defaultjob,"Karan","10:45 AM",
"How are you?", "_____"));

        userList.add(new ModelClass(R.drawable.defaultjob,"Samir","10:45 AM",
"How are you?", "_____"));

        userList.add(new ModelClass(R.drawable.defaultjob,"David","10:45 AM",
"How are you?", "_____"));

        userList.add(new ModelClass(R.drawable.defaultjob,"Messi","10:45 AM",
"How are you?", "_____"));

        userList.add(new ModelClass(R.drawable.defaultjob,"Shoban","10:45 AM",
"How are you?", "_____"));

    }

    private void initRecyclerView() {

        recyclerView=findViewById(R.id.recyclerView);
        layoutManager = new LinearLayoutManager(this);
        layoutManager.setOrientation(RecyclerView.VERTICAL);
        recyclerView.setLayoutManager(layoutManager);
        adapter=new Adapter(userList);
        recyclerView.setAdapter(adapter);
        adapter.notifyDataSetChanged();

    }
}

```

### **ModelClass.java**

```

package com.example.lab12;

public class ModelClass {

    private int imageview1;
    private String textview1;
    private String textview2;
    private String textview3;

```

```
private String divider;
```

```
ModelClass(int imageview1, String textview1, String textview2, String  
textview3, String divider){  
    this.imageview1=imageview1;  
    this.textview1=textview1;  
    this.textview2=textview2;  
    this.textview3=textview3;  
    this.divider=divider;  
}
```

//adapter is the most important part in a recycler view

```
public int getImageview1() {  
    return imageview1;  
}
```

```
public String getTextview1() {  
    return textview1;  
}
```

```
public String getTextview2() {  
    return textview2;  
}
```

```
public String getTextview3() {  
    return textview3;  
}
```

```
public String getDivider() {  
    return divider;  
}
```

```
}
```

### **Adapter.java**

```
package com.example.lab12;
```

```
import android.view.LayoutInflater;  
import android.view.View;  
import android.view.ViewGroup;  
import android.widget.ImageView;  
import android.widget.TextView;
```

```

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

import java.util.List;

public class Adapter extends RecyclerView.Adapter<Adapter.ViewHolder> {

    private List<ModelClass> userList;

    public Adapter (List<ModelClass>userList){ this.userList=userList; }

    @NonNull
    @Override
    public Adapter.ViewHolder onCreateViewHolder(@NonNull ViewGroup
parent, int viewType) {
        View view =
LayoutInflater.from(parent.getContext()).inflate(R.layout.item_design,parent,false
);
        return new ViewHolder(view);
    }

    @Override
    public void onBindViewHolder(@NonNull Adapter.ViewHolder holder, int
position) {

        int resource = userList.get(position).getImageview1();
        String name = userList.get(position).getTextview1();
        String msg = userList.get(position).getTextview3();
        String time = userList.get(position).getTextview2();
        String line = userList.get(position).getDivider();

        holder.setData(resource,name,msg,time, line);

    }

    @Override
    public int getItemCount() {

        return userList.size();

    }

    public class ViewHolder extends RecyclerView.ViewHolder {

```

```

private ImageView imageView;
private TextView textView;
private TextView textView2;
private TextView textView3;
private TextView divider;

public ViewHolder(@NonNull View itemView) {
    super(itemView);

    imageView = itemView.findViewById(R.id.imageview1);
    textView = itemView.findViewById(R.id.textview);
    textView2 = itemView.findViewById(R.id.textview2);
    textView3 = itemView.findViewById(R.id.textview3);
    divider = itemView.findViewById(R.id.divider);

}

public void setData(int resource, String name, String msg, String time, String
line) {

    imageView.setImageResource(resource);
    textView.setText(name);
    textView3.setText(msg);
    textView2.setText(time);
    divider.setText(line);
}
}

```

### **activity\_main.xml**

```

<?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=".MainActivity">

    <androidx.recyclerview.widget.RecyclerView
    android:layout_width="match_parent"

```

```

        android:layout_height="match_parent"
        android:background="#ffffff"
        android:id="@+id/recyclerView">

    </androidx.recyclerview.widget.RecyclerView>
</androidx.constraintlayout.widget.ConstraintLayout>

```

### item\_design.xml

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    xmlns:app="http://schemas.android.com/apk/res-auto">

    <RelativeLayout
        android:layout_width="match_parent"
        android:layout_height="95dp"
        android:background="#ffffff">

        <androidx.cardview.widget.CardView
            android:layout_width="60dp"
            android:layout_height="60dp"
            android:id="@+id/imageview"
            app:cardCornerRadius="60dp"
            android:layout_marginTop="20dp"
            android:layout_marginLeft="20dp">

            <ImageView
                android:layout_width="60dp"
                android:layout_height="60dp"
                android:scaleType="centerCrop"
                android:id="@+id/imageview1"
                android:src="@drawable/defaultjob">

            </ImageView>

        </androidx.cardview.widget.CardView>

        <TextView
            android:layout_width="120dp"
            android:layout_height="30dp"
            android:text="Fernandez"
            android:textColor="#000"

```

```
android:id="@+id/textview"  
android:textSize="20sp"  
android:layout_toRightOf="@+id/imageview"  
android:layout_marginTop="20dp"  
android:layout_marginLeft="20dp">
```

```
</TextView>
```

```
<TextView  
android:layout_width="80dp"  
android:layout_height="30dp"  
android:text="10:43 am"  
android:id="@+id/textview2"  
android:textSize="12sp"  
android:layout_toRightOf="@+id/textview"  
android:layout_marginTop="20dp"  
android:layout_marginLeft="75dp">
```

```
</TextView>
```

```
<TextView  
android:layout_width="140dp"  
android:layout_height="30dp"  
android:text="How are you?"  
android:textSize="15sp"  
android:id="@+id/textview3"  
android:layout_toRightOf="@+id/imageview"  
android:layout_below="@+id/textview"  
android:layout_marginLeft="20dp">
```

```
</TextView>
```

```
<TextView  
android:layout_width="match_parent"  
android:layout_height="20dp"  
android:text="-----"  
android:textColor="#CDC7C7"  
android:id="@+id/divider"  
android:layout_marginTop="-5dp"  
android:layout_toRightOf="@+id/imageview"  
android:layout_below="@+id/imageview"
```

```
android:layout_marginLeft="20dp">
```

```
</TextView>
```

```
</RelativeLayout>
```

```
</RelativeLayout>
```

## OUTPUT:

