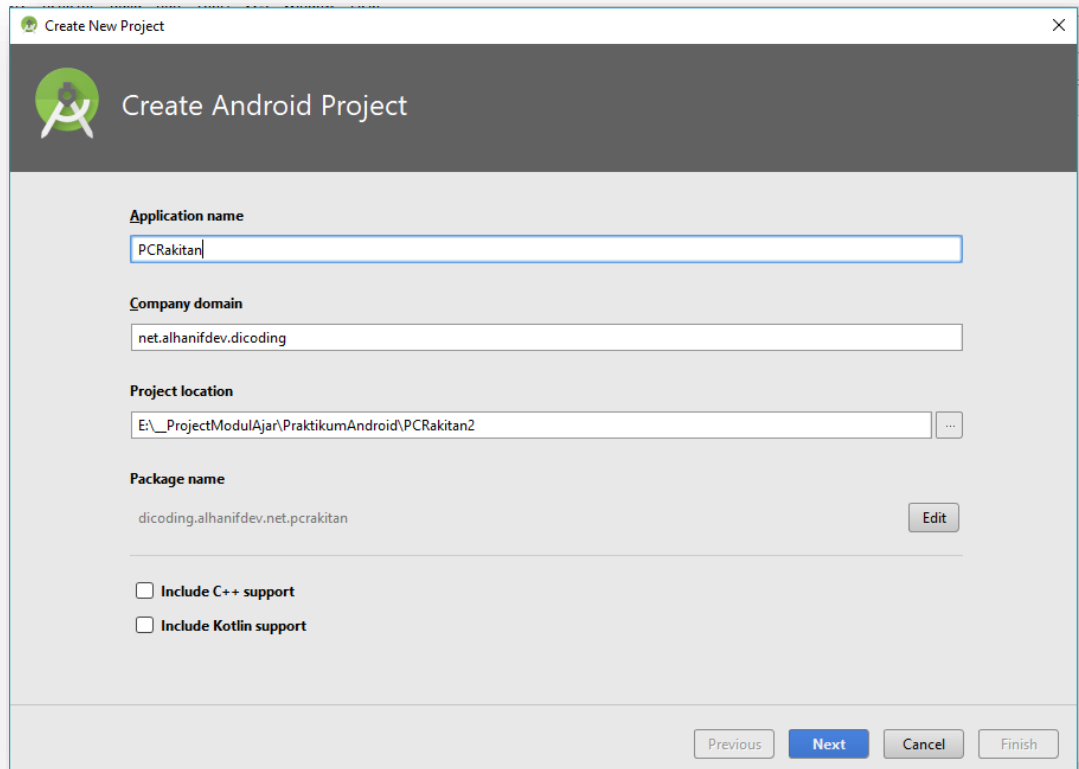


# UTS PRAKTIKUM “Program Spinner”

Heri Setiawan - [www.blackskysoft.net](http://www.blackskysoft.net)

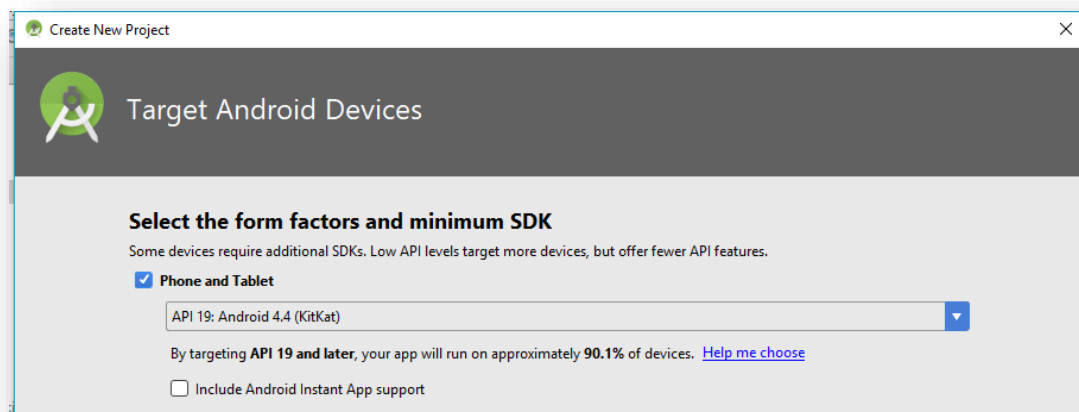
1. Buatlah project dengan nama PC\_Rakitan



The screenshot shows the 'Create New Project' dialog in Android Studio. The title bar says 'Create New Project'. The main heading is 'Create Android Project'. The form contains the following fields and options:

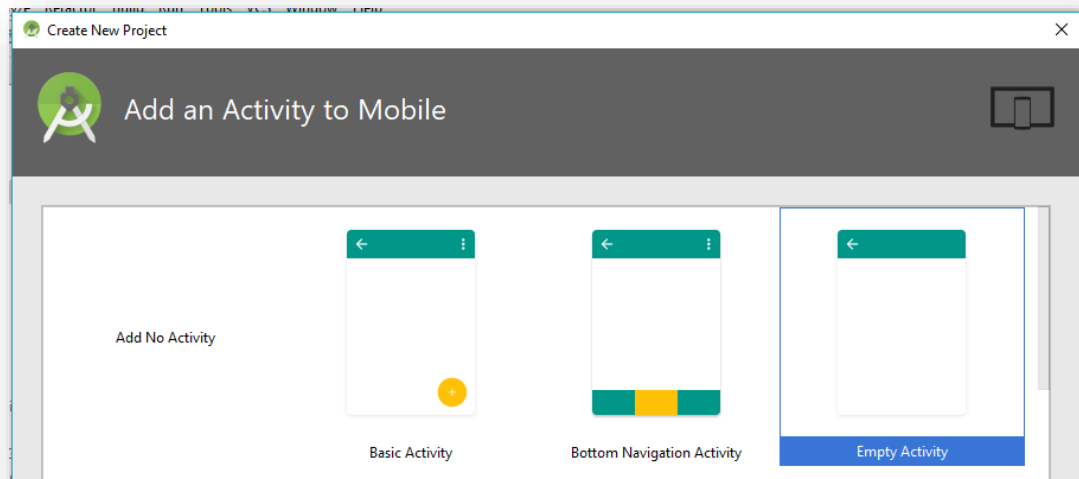
- Application name:** PC\_Rakitan
- Company domain:** net.alhanifdev.dicoding
- Project location:** E:\\_ProjectModulAjar\PraktikumAndroid\PC\_Rakitan2
- Package name:** dicoding.alhanifdev.net.pcrakitan (with an 'Edit' button)
- ☐ Include C++ support
- ☐ Include Kotlin support

At the bottom, there are four buttons: 'Previous', 'Next' (highlighted in blue), 'Cancel', and 'Finish'.

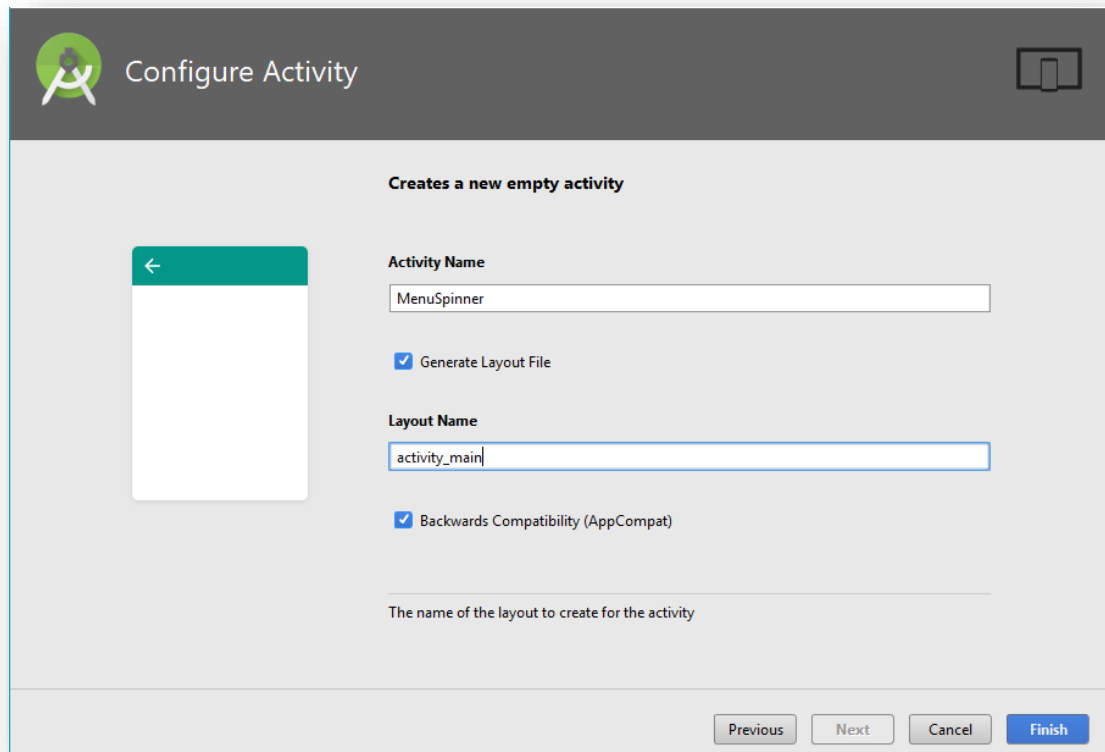


The screenshot shows the 'Create New Project' dialog in Android Studio, specifically the 'Target Android Devices' step. The title bar says 'Create New Project'. The main heading is 'Target Android Devices'. The form contains the following options:

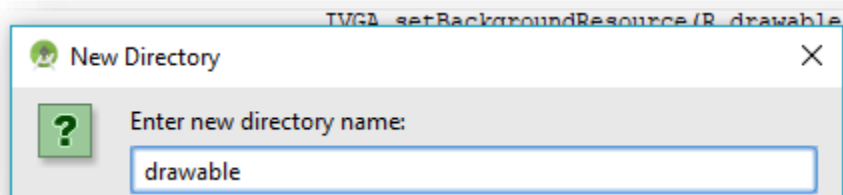
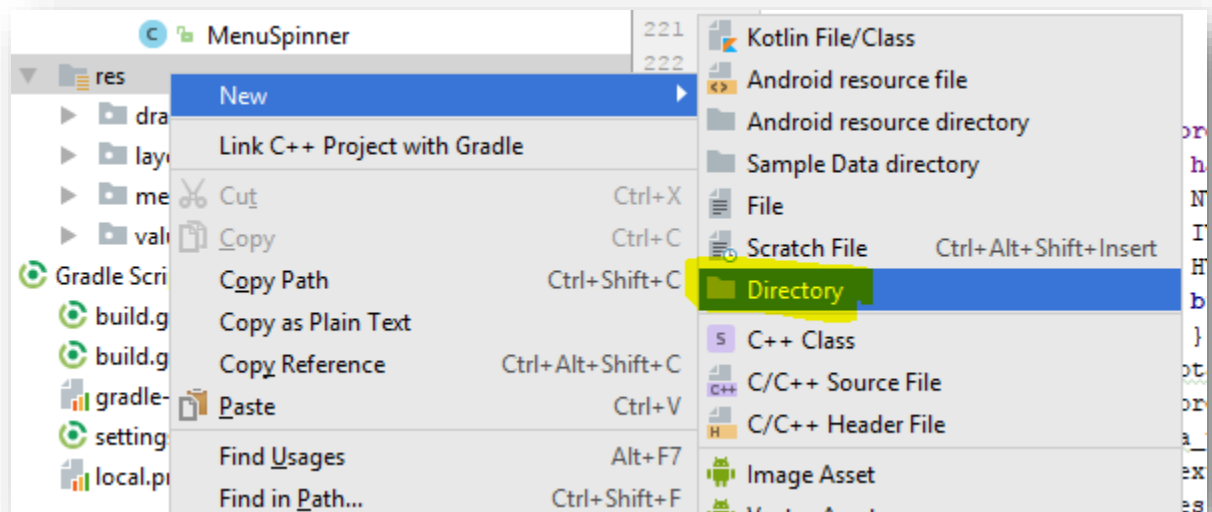
- Select the form factors and minimum SDK:** Some devices require additional SDKs. Low API levels target more devices, but offer fewer API features.
- ☒ Phone and Tablet
- API level:** API 19: Android 4.4 (KitKat) (selected from a dropdown menu)
- By targeting **API 19 and later**, your app will run on approximately **90.1%** of devices. [Help me choose](#)
- ☐ Include Android Instant App support



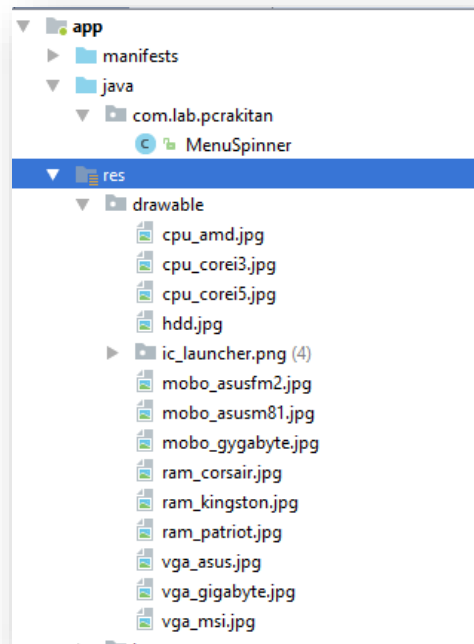
2. Atur nama class dan layout seperti gambar berikut



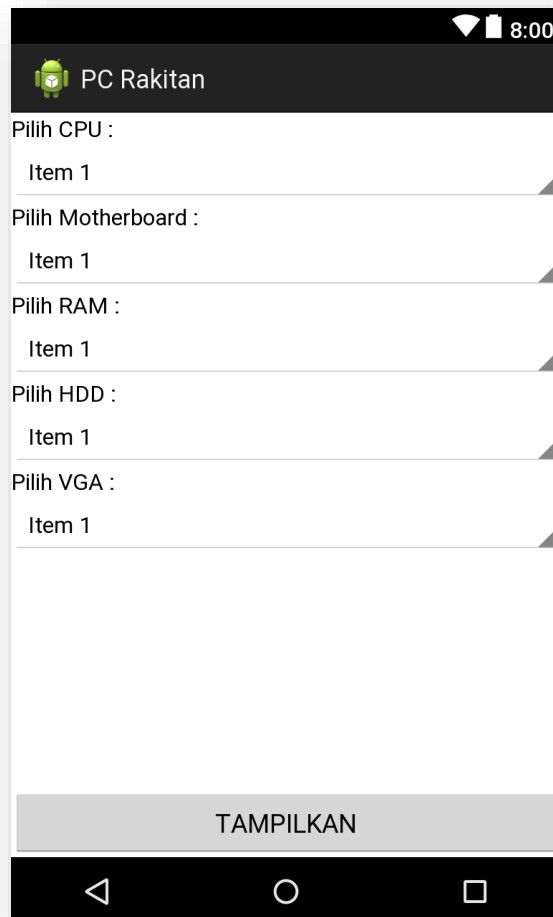
3. Buat sebuah folder baru dengan nama drawable dengan cara klik kanan pada folder **res**->**New**->**Directory**



Copy gambar pendukung dari bahan gambar praktikum dan paste ke folder **drawable**



#### 4. Atur tampilan layout activity\_main.xml



```

<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical"
    android:background="@android:color/white"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent" >
    <TextView
        android:id="@+id/textView1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_centerVertical="true"
        android:layout_alignParentTop="true"
        android:textColor="@android:color/black"
        android:textSize="16sp"
        android:text="Pilih CPU : " />
    <Spinner
        android:id="@+id/SpinnerCPU"
        android:layout_height="40dp"
        android:layout_width="fill_parent"
        android:layout_below="@+id/textView1"
        android:layout_centerInParent="true">
    </Spinner>

```

```

    <TextView
        android:id="@+id/textView2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@+id/SpinnerCPU"
        android:textColor="@android:color/black"
        android:textSize="16sp"
        android:text="Pilih Motherboard : " />
    <Spinner
        android:id="@+id/SpinnerMobo"
        android:layout_height="40dp"
        android:layout_width="fill_parent"
        android:layout_below="@+id/textView2"
        android:layout_centerInParent="true">
    </Spinner>
    <TextView
        android:id="@+id/textView3"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@+id/SpinnerMobo"
        android:textColor="@android:color/black"
        android:textSize="16sp"
        android:text="Pilih RAM : " />

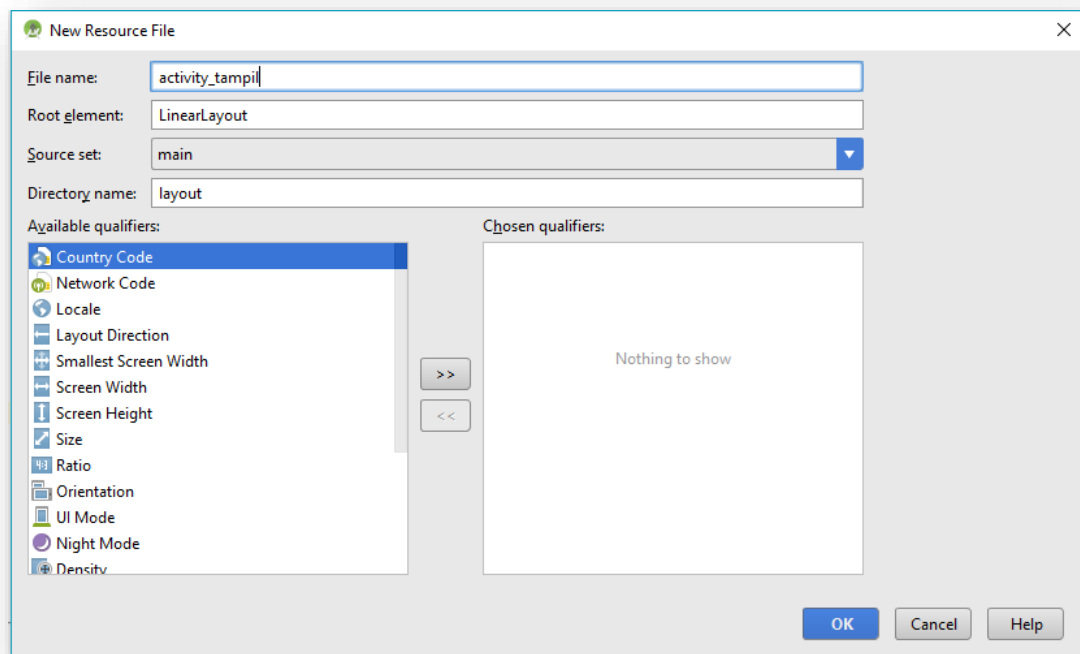
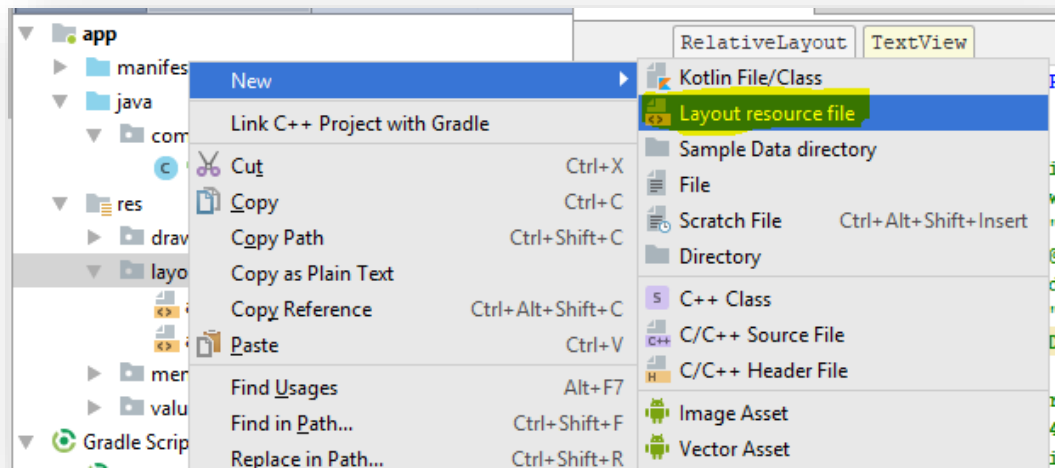
```

```

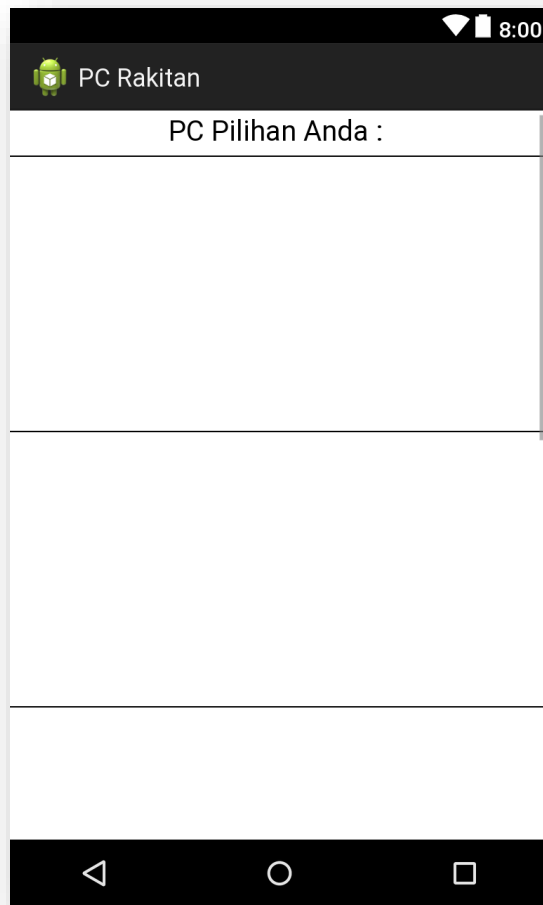
<Spinner
    android:id="@+id/SpinnerRAM"
    android:layout_height="40dp"
    android:layout_width="fill_parent"
    android:layout_below="@+id/textView3"
    android:layout_centerInParent="true">
</Spinner>
<TextView
    android:id="@+id/textView4"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_below="@+id/SpinnerRAM"
    android:textColor="@android:color/black"
    android:textSize="16sp"
    android:text="Pilih HDD :." />
<Spinner
    android:id="@+id/SpinnerHDD"
    android:layout_height="40dp"
    android:layout_width="fill_parent"
    android:layout_below="@+id/textView4"
    android:layout_centerInParent="true">
</Spinner>
<TextView
    android:id="@+id/textView5"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_below="@+id/SpinnerHDD"
    android:textColor="@android:color/black"
    android:textSize="16sp"
    android:text="Pilih VGA :." />
<Spinner
    android:id="@+id/SpinnerVGA"
    android:layout_height="40dp"
    android:layout_width="fill_parent"
    android:layout_below="@+id/textView5"
    android:layout_centerInParent="true">
</Spinner>
<Button
    android:id="@+id/tampil"
    android:layout_height="wrap_content"
    android:text="TAMPILKAN"
    android:layout_alignParentBottom="true"
    android:layout_centerInParent="true"
    android:layout_width="fill_parent">
</Button>
</RelativeLayout>

```

5. Buat layout baru dengan nama activity\_tampil.xml



## 6. Atur tampilan layout activity\_tampil.xml





```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:background="@android:color/white"
    android:layout_width="match_parent"
    android:layout_height="match_parent" >
    <ScrollView
        android:id="@+id/scrollview"
        android:layout_width="fill_parent"
        android:layout_height="wrap_content">
        <RelativeLayout
            android:layout_width="match_parent"
            android:layout_height="match_parent">
            <TextView
                android:id="@+id/judul"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:layout_alignParentTop="true"
                android:layout_centerHorizontal="true"
                android:textColor="@android:color/black"
                android:textSize="20sp"
                android:text="PC Pilihan Anda : " />
            <View
                android:id="@+id/p0"
                android:background="@android:color/black"
                android:layout_marginTop="5dp"
                android:layout_width="fill_parent"
                android:layout_height="1dp"
                android:layout_below="@+id/judul"/>
            <TextView
                android:id="@+id>NamaCPU"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:layout_alignParentLeft="true"
                android:layout_below="@+id/p0"
                android:textColor="@android:color/black"
                android:textSize="16sp"
                android:text="" />
            <ImageView
                android:id="@+id/GambarCPU"
                android:layout_width="150dp"
                android:layout_height="150dp"
                android:layout_centerHorizontal="true"
                android:layout_below="@+id>NamaCPU"/>
            <TextView
                android:id="@+id/HargaCPU"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:layout_alignParentLeft="true"
                android:layout_below="@+id/GambarCPU"
                android:textColor="@android:color/black"
                android:text="" />
            <View
                android:id="@+id/p1"
                android:background="@android:color/black"
                android:layout_marginTop="5dp"
                android:layout_width="fill_parent"
                android:layout_height="1dp"
                android:layout_below="@+id/HargaCPU"/>

```

```

} <TextView
    android:id="@+id>NamaMobo"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentLeft="true"
    android:layout_below="@+id/p1"
    android:textColor="@android:color/black"
    android:textSize="16sp"
    android:text="" />
} <ImageView
    android:id="@+id/GambarMobo"
    android:layout_width="150dp"
    android:layout_height="150dp"
    android:layout_centerHorizontal="true"
    android:layout_below="@+id>NamaMobo"/>
} <TextView
    android:id="@+id/HargaMobo"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentLeft="true"
    android:layout_below="@+id/GambarMobo"
    android:textColor="@android:color/black"
    android:text="" />
} <View
    android:id="@+id/p2"
    android:background="@android:color/black"
    android:layout_marginTop="5dp"
    android:layout_width="fill_parent"
    android:layout_height="1dp"
    android:layout_below="@+id/HargaMobo"/>
} <TextView
    android:id="@+id>NamaRAM"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentLeft="true"
    android:layout_below="@+id/p2"
    android:textColor="@android:color/black"
    android:textSize="16sp"
    android:text="" />
} <ImageView
    android:id="@+id/GambarRAM"
    android:layout_width="150dp"
    android:layout_height="150dp"
    android:layout_centerHorizontal="true"
    android:layout_below="@+id>NamaRAM"/>
} <TextView
    android:id="@+id/HargaRAM"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentLeft="true"
    android:layout_below="@+id/GambarRAM"
    android:textColor="@android:color/black"
    android:text="" />
} <View
    android:id="@+id/p3"
    android:background="@android:color/black"
    android:layout_marginTop="5dp"
    android:layout_width="fill_parent"
    android:layout_height="1dp"
    android:layout_below="@+id/HargaRAM"/>
}

```

```

<TextView
    android:id="@+id>NamaHDD"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentLeft="true"
    android:layout_below="@+id/p3"
    android:textColor="@android:color/black"
    android:textSize="16sp"
    android:text="" />
<ImageView
    android:id="@+id/GambarHDD"
    android:layout_width="150dp"
    android:layout_height="150dp"
    android:layout_centerHorizontal="true"
    android:layout_below="@+id>NamaHDD"/>
<TextView
    android:id="@+id/HargaHDD"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentLeft="true"
    android:layout_below="@+id/GambarHDD"
    android:textColor="@android:color/black"
    android:text="" />
<View
    android:id="@+id/p4"
    android:background="@android:color/black"
    android:layout_marginTop="5dp"
    android:layout_width="fill_parent"
    android:layout_height="1dp"
    android:layout_below="@+id/HargaHDD"/>
<TextView
    android:id="@+id>NamaVGA"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentLeft="true"
    android:layout_below="@+id/p4"
    android:textColor="@android:color/black"
    android:textSize="16sp"
    android:text="" />
<ImageView
    android:id="@+id/GambarVGA"
    android:layout_width="150dp"
    android:layout_height="150dp"
    android:layout_centerHorizontal="true"
    android:layout_below="@+id>NamaVGA"/>
<TextView
    android:id="@+id/HargaVGA"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentLeft="true"
    android:layout_below="@+id/GambarVGA"
    android:textColor="@android:color/black"
    android:text="" />
<View
    android:id="@+id/p5"
    android:background="@android:color/black"
    android:layout_marginTop="5dp"
    android:layout_width="fill_parent"
    android:layout_height="1dp"
    android:layout_below="@+id/HargaVGA"/>

```

```

<TextView
    android:id="@+id/HargaTotal"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentLeft="true"
    android:layout_below="@+id/p5"
    android:layout_marginTop="7dp"
    android:textColor="@android:color/black"
    android:textSize="18sp"
    android:text="" />
<TextView
    android:id="@+id/Score"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentLeft="true"
    android:layout_below="@+id/HargaTotal"
    android:layout_marginTop="7dp"
    android:textColor="@android:color/black"
    android:textSize="18sp"
    android:text="" />
<Button
    android:id="@+id/kembali"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_below="@+id/Score"
    android:layout_marginTop="7dp"
    android:layout_centerHorizontal="true"
    android:textColor="@android:color/black"
    android:text="Kembali">
</Button>
</RelativeLayout>

```

7. Buka Class MenuSpinner.java dan ubah koding seperti dibawah ini:

```

package com.____._____;
import android.app.Activity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.ImageView;
import android.widget.Spinner;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.AdapterView.OnItemSelectedListener;
import android.widget.TextView;

public class _____ extends Activity {
    private int indexCPU, indexMobo, indexRAM, indexHDD, indexVGA;
    int harga_total, score;
    String hargaCPU, hargaMobo, hargaRAM, hargaHDD, hargaVGA;
    Spinner menuCPU, menuMobo, menuRAM, menuHDD, menuVGA;
    Button Pilih, kembali;
    public String[] spinnerCPU = {"Intel Core i3 3210", "Intel Core i5 3330", "AMD A10-5800K"};
    public String[] spinnerMobo = {"Asus H81M-A intel Socket 1150", "Gigabyte G1.Sniper B5 intel Socket 1150", "Asus F2A85-M LE AMD Socket FM2"};
    public String[] spinnerRAM = {"Corsair CML4GX3M1A1600C9 (1 x 4Gb) DDR3", "Kingston

```

```

KHX1600C9D3/4G DDR3", "PATRIOT PV3 (2x4Gb) DDR3"};
public String[] spinnerHDD = {"Hitachi SATA III 1TB 3.5Inch", "Seagate SATA III 500Gb
7200RPM 16Mb 3.5Inch", "WDC SATA III Blue 1 TB 64Mb 3.5Inch"};
public String[] spinnerVGA = {"Gigabyte GTX 550 Ti 1Gb 192Bit DDR5", "Asus GTX 650 DC OC 1Gb
128Bit DDR5", "MSI HD 7790 OC 1GB DDR5 Radeon PCI Exp."};
@Override
public void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    programutama();
}
public void programutama(){
//=== CODE 1 ===//
setContentView(R.layout. _____);
menuCPU = (Spinner)findViewById(R.id. spinnerCpu);
_____ = (Spinner)findViewById(R.id. _____);
_____ = (Spinner)findViewById(R.id. _____);
_____ = (Spinner)findViewById(R.id. _____);
_____ = (Spinner)findViewById(R.id. _____);
_____ = (Button)findViewById(R.id. _____);

//=== INISIASI SPINNER == //
ArrayAdapter<String> adapter1 = new
ArrayAdapter<String>(this,android.R.layout. simple_spinner_item,spinnerCPU);
    menuCPU.setAdapter(adapter1);
    menuCPU.setOnItemClickListener(new OnItemSelectedListener(){
        public void onItemClick(AdapterView<?> arg0, View arg1, int arg2,long arg3)
    {
        indexCPU = menuCPU.getSelectedItemPosition();
    }
    @Override
    public void onNothingSelected(AdapterView<?> arg0) {
    }
    });
//=== CODE2 ===//
ArrayAdapter<String> adapter2 = new
ArrayAdapter<String>(this,android.R.layout. simple_spinner_item,_____);
    _____.setAdapter(_____);
    _____.setOnItemSelectedListener(new OnItemSelectedListener(){
        public void onItemClick(AdapterView<?> arg0, View arg1, int arg2,long arg3)
    {
        indexMobo = _____.getSelectedItemPosition();
    }
    public void onNothingSelected(AdapterView<?> arg0) {
    }
    });

ArrayAdapter<String> adapter3 = new
ArrayAdapter<String>(this,android.R.layout. simple_spinner_item,_____);
    _____.setAdapter(_____);
    _____.setOnItemSelectedListener(new OnItemSelectedListener(){
        public void onItemClick(AdapterView<?> arg0, View arg1, int arg2,long arg3)
    {
        indexRAM = _____.getSelectedItemPosition();
    }
    public void onNothingSelected(AdapterView<?> arg0) {
    }
    });

ArrayAdapter<String> adapter4 = new
ArrayAdapter<String>(this,android.R.layout. simple_spinner_item,_____);
    _____.setAdapter(_____);

```

```

        _____.setOnItemSelectedListener(new OnItemSelectedListener(){
            public void onItemSelected(AdapterView<?> arg0, View arg1, int arg2, long arg3)
        {
            indexHDD = _____.getSelectedItemPosition();
        }
        public void onNothingSelected(AdapterView<?> arg0) {
        }
    });

    ArrayAdapter<String> adapter5 = new
    ArrayAdapter<String>(this, android.R.layout. simple_spinner_item, _____.getResources().getStringArray(R.array. hdd));
    _____.setAdapter(adapter5);
    _____.setOnItemSelectedListener(new OnItemSelectedListener(){
        public void onItemSelected(AdapterView<?> arg0, View arg1, int arg2, long arg3)
    {
        indexVGA = _____.getSelectedItemPosition();
    }
    public void onNothingSelected(AdapterView<?> arg0) {
    }
    });

    Pilih.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            tampil();
        }
    });

    public void tampil() {
        setContentView(R.layout.activity_tampil);
        if( (indexMobo == 2) && ((indexCPU == 0) || (indexCPU == 1)) ) {
            indexCPU = 5;
            indexMobo = 5;
        }
        if( (indexCPU == 2) && ((indexMobo == 0) || (indexMobo == 1)) ) {
            indexCPU = 5;
            indexMobo = 5;
        }
    }

    TextView NCPU = (TextView)findViewById(R.id. NamaCPU);
    ImageView ICPU = (ImageView)findViewById(R.id. GambarCPU);
    TextView HCPU = (TextView)findViewById(R.id. HargaCPU);
    switch (indexCPU) {
    case 0: score = score + 510;
        harga_total = harga_total + 1250000;
        NCPU.setText("Intel Core i3 3210");
        ICPU.setBackgroundResource(R.drawable. i3);
        HCPU.setText("Harga : Rp 1.250.000");
        break;
    case 1: score = score + 630;
        harga_total = harga_total + 2150000;
        NCPU.setText("Intel Core i5 3330");
        ICPU.setBackgroundResource(R.drawable. i5);
        HCPU.setText("Harga : Rp 2.150.000");
        break;
    case 2: score = score + 610;
        harga_total = harga_total + 1750000;
        NCPU.setText("AMD A10-5800K");
        ICPU.setBackgroundResource(R.drawable. a10);
        HCPU.setText("Harga : Rp 1.750.000");
        break;
    case 5: NCPU.setText("Prosesor tidak cocok dengan Socket Motherboard");
    }
}

```



```

        ICPU.setBackgroundResource(android.R.drawable. btn_star);
        HCPU.setText("Harga : Rp -");
    }
    TextView NMobo = (TextView)findViewById(R.id. NamaMobo);
    ImageView IMobo = (ImageView)findViewById(R.id. GambarMobo);
    TextView HMobo = (TextView)findViewById(R.id. HargaMobo);
    switch (indexMobo) {
    case 0: score = score + 310;
        harga_total = harga_total + 850000;
        NMobo.setText("Asus H81M-A intel Socket 1150");
        IMobo.setBackgroundResource(R.drawable. asush81ma);
        HMobo.setText("Harga : Rp 850.000");
        break;
    case 1: score = score + 410;
        harga_total = harga_total + 1750000;
        NMobo.setText("Gigabyte G1.Sniper B5 intel Socket 1150");
        IMobo.setBackgroundResource(R.drawable. gigabyteg1);
        HMobo.setText("Harga : Rp 1.750.000");
        break;
    case 2: score = score + 350;
        harga_total = harga_total + 1450000;
        NMobo.setText("Asus F2A85-M LE AMD Socket FM2");
        IMobo.setBackgroundResource(R.drawable. asusf2a85);
        HMobo.setText("Harga : Rp 1.450.000");
        break;
    case 5: NMobo.setText("Socket Prosesor Motherboard tidak cocok dengan Prosesor");
        IMobo.setBackgroundResource(android.R.drawable. btn_star);
        HMobo.setText("Harga : Rp -");
    }
    TextView NRAM = (TextView)findViewById(R.id. NamaRAM);
    ImageView IRAM = (ImageView)findViewById(R.id. GambarRAM);
    TextView HRAM = (TextView)findViewById(R.id. HargaRAM);
    switch (indexRAM) {
    case 0: score = score + 300;
        harga_total = harga_total + 550000;
        NRAM.setText("Corsair CML4GX3M1A1600C9 (1 x 4Gb) DDR3");
        IRAM.setBackgroundResource(R.drawable. corsair);
        HRAM.setText("Harga : Rp 550.000");
        break;
    case 1: score = score + 290;
        harga_total = harga_total + 520000;
        NRAM.setText("Kingston KHX1600C9D3/4G DDR3");
        IRAM.setBackgroundResource(R.drawable. kingstone);
        HRAM.setText("Harga : Rp 520.000");
        break;
    case 2: score = score + 330;
        harga_total = harga_total + 470000;
        NRAM.setText("PATRIOT PV3 (2x4Gb) DDR3");
        IRAM.setBackgroundResource(R.drawable. patriot);
        HRAM.setText("Harga : Rp 470.000");
        break;
    }
    TextView NHDD = (TextView)findViewById(R.id. NamaHDD);
    ImageView IHDD = (ImageView)findViewById(R.id. GambarHDD);
    TextView HHDD = (TextView)findViewById(R.id. HargaHDD);
    switch (indexHDD) {
    case 0: score = score + 250;
        harga_total = harga_total + 770000;
        NHDD.setText("Hitachi SATA III 1TB 3.5Inch");
        IHDD.setBackgroundResource(R.drawable. hitachi);
        HHDD.setText("Harga : Rp 770.000");
    }

```

```

        break;
    case 1: score = score + 270;
        harga_total = harga_total + 670000;
        NHDD.setText("Seagate SATA III 500Gb 7200RPM 16Mb 3.5Inch");
        IHDD.setBackgroundResource(R.drawable. seagate);
        HHDD.setText("Harga : Rp 670.000");
        break;
    case 2: score = score + 250;
        harga_total = harga_total + 1170000;
        NHDD.setText("WDC SATA III Blue 1 TB 64Mb 3.5Inch");
        IHDD.setBackgroundResource(R.drawable. wdc);
        HHDD.setText("Harga : Rp 1.170.000");
        break;
}
TextView NVGA = (TextView)findViewById(R.id. NamaVGA);
ImageView IVGA = (ImageView)findViewById(R.id. GambarVGA);
TextView HVGA = (TextView)findViewById(R.id. HargaVGA);
switch (indexVGA) {
    case 0: score = score + 500;
        harga_total = harga_total + 1370000;
        NVGA.setText("Gigabyte GTX 550 Ti 1Gb 192Bit DDR5");
        IVGA.setBackgroundResource(R.drawable. gigabytegtx550);
        HVGA.setText("Harga : Rp 1.370.000");
        break;
    case 1: score = score + 550;
        harga_total = harga_total + 1750000;
        NVGA.setText("Asus GTX 650 DC OC 1Gb 128Bit DDR5");
        IVGA.setBackgroundResource(R.drawable. asusgtx650);
        HVGA.setText("Harga : Rp 1.750.000");
        break;
    case 2: score = score + 570;
        harga_total = harga_total + 1870000;
        NVGA.setText("MSI HD 7790 OC 1GB DDR5 Ati Radeon PCI Exp. ");
        IVGA.setBackgroundResource(R.drawable. msiradeon);
        HVGA.setText("Harga : Rp 1.870.000");
        break;
}
TextView Htotal = (TextView)findViewById(R.id. HargaTotal);
TextView Score = (TextView)findViewById(R.id. Score);
String harga_totals = "" + harga_total;
Htotal.setText("Total Harga : " + harga_totals);
String scores = "" + score;
Score.setText("Score Performance : " + scores);
kembali = (Button)findViewById(R.id. kembali);
kembali.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        score = 0;
        harga_total = 0;
        programutama();
    }
});
}
}
}

```



8. Selanjutnya isikan blok program yang kosong pada file **MenuSpinner.java** sesuai dengan petunjuk dibawah ini.

**Petunjuk pengisian Code 1 MenuSpinner.java :**

- ✓ Pada blok Code 1 adalah terdapat **setContentView** dimana digunakan untuk mendefinisikan tampilan layout (XML) yang digunakan. Tampilan yang digunakan adalah **main.xml**.
- ✓ Pada bagian inisiasi objek, yaitu objek spinner dan juga button. Sesuaikan nama dari dengan yang ada pada bagian deklarasi objek dan sesuaikan id dengan tampilan yang digunakan.

**Petunjuk pengisian Code 2 MenuSpinner.java :**

- ✓ Pada blok program Code 2 berfungsi untuk **inisiasi Spinner**, isi seperti kode blok program **spinner pertama yaitu Spinner CPU**. Pertama, untuk inisiasi **ArrayAdapter**, isikan nama dengan **adapter2**, pada spinner selanjutnya dapat diisi dengan nama adapter3, adapter4 dst
- ✓ Kemudian, masih pada inisiasi **ArrayAdapter**, pada bagian **.R.layout. simple\_spinner\_item, \_\_\_\_\_**); diisi dengan nama array String yang ada pada bagian deklarasi, berfungsi untuk menampilkan array String sebagai menu menu yang ada pada Spinner.
- ✓ Selanjutnya adalah **.setAdapter** digunakan untuk mencantumkan ArrayAdapter String ke Objek Spinner, isikan dengan nama Objek Spinner dan Adapter yang akan digunakan oleh Spinner.
- ✓ Kemudian **.setOnItemSelectedListener** digunakan untuk memberikan aksi pada Spinner, isikan dengan nama Objek Spinner.

- ✓ `.getSelectedItemPosition();` berfungsi untuk mendapatkan nilai yang dipilih pada Spinner, isikan dengan nama Objek Spinner.
- ✓ Lanjutkan hingga keempat inisiasi Spinner terisi.

## 9. Running aplikasi

Apabila sudah benar, maka akan tampil output seperti pada gambar berikut

