

## 1. Program to check whether a number is prime or not

### Activity Main.Xml File

```
<RelativeLayout 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"
    tools:context=".MainActivity" >
    <TextView
        android:id="@+id/textView1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentTop="true"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="36dp"
        android:text="Check Prime or Not" />
    <EditText
        android:id="@+id/getvalue"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@+id/textView1"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="100dp"
        android:ems="10" />
    <Button
        android:id="@+id/result"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@+id/getvalue"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="26dp"
        android:text="Check" />
    <TextView
        android:id="@+id/textView2"
        android:layout_width="wrap_content"
```

```
        android:layout_height="wrap_content"
        android:layout_alignBottom="@+id/getvalue"
        android:layout_alignLeft="@+id/getvalue"
        android:layout_marginBottom="53dp"
        android:layout_marginLeft="18dp"
        android:text="Enter a Number" />
</RelativeLayout>
```

### **MainActivity.java file**

```
package com.example.primenumber;
import android.os.Bundle;
import android.app.Activity;
import android.view.Menu;
import android.view.View;
import android.view.View.OnClickListener;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;
public class MainActivity extends Activity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        final EditText GetNumber = (EditText)findViewById(R.id.getvalue);
        Button button = (Button) findViewById(R.id.result);

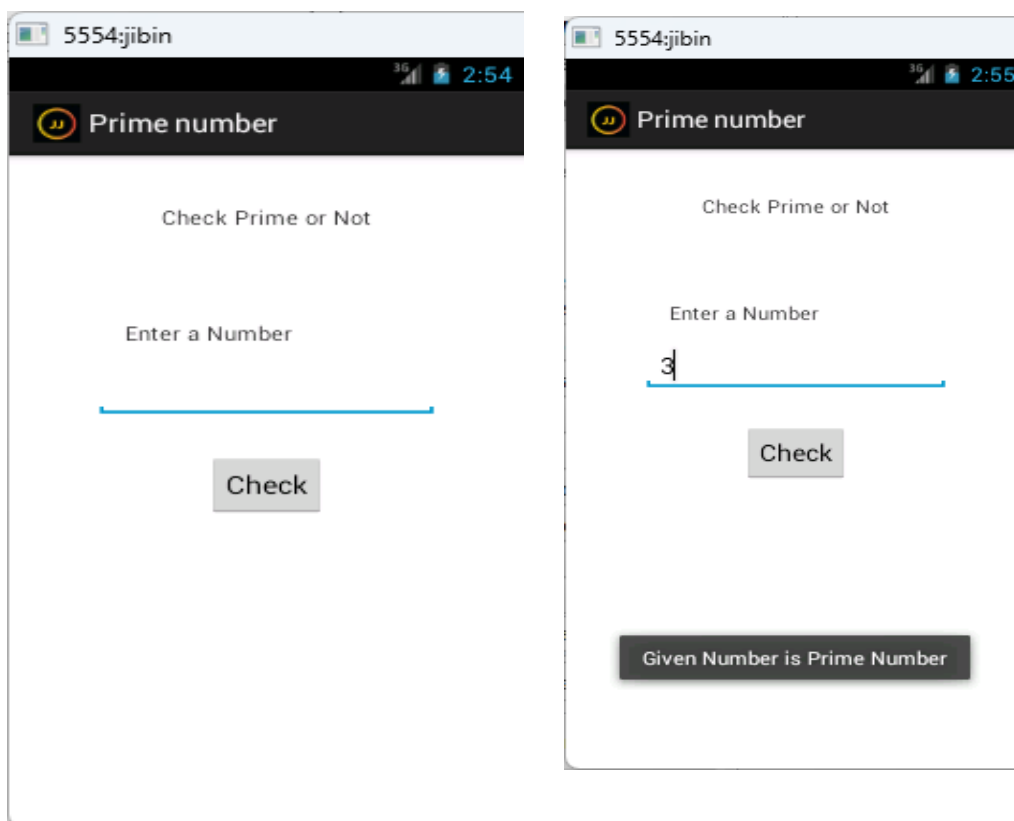
        button.setOnClickListener(new OnClickListener() {
            public void onClick(View arg0) {
                int flag=0;
                double num1 = Double.parseDouble(GetNumber.getText().toString());
                for (int i = 2; i < num1; i++)
                {
                    if (num1 % i == 0)
```

```

        flag = 1;
    }
    if (flag == 0)
    {
        Toast t = Toast.makeText(getApplicationContext(),
            "Given Number is Prime Number",Toast.LENGTH_SHORT); t.show();
    }else{
        Toast t = Toast.makeText(getApplicationContext(),"Given Number is Not a Prime
Number",Toast.LENGTH_SHORT);
        t.show();
    }
    });
}
}

```

## OUTPUT



## 2. Write a program to display multiplication table of a given number

### Activity Main.Xml File

```
<RelativeLayout 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"
    tools:context=".MainActivity" >

    <EditText
        android:id="@+id/editText1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentTop="true"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="76dp"
        android:ems="10" />

    <Button
        android:id="@+id/button1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignRight="@+id/textView1"
        android:layout_below="@+id/editText1"
        android:layout_marginTop="30dp"
        android:text="Click Here" />

    <TextView
        android:id="@+id/textView1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@+id/button1"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="29dp"
        android:text="@string/hello_world" />

</RelativeLayout>
```

## MainActivity.java file

```
package com.example.multiplicationyims;

import android.os.Bundle;
import android.app.Activity;
import android.view.Menu;
import android.view.View;
import android.view.View.OnClickListener;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;

public class MainActivity extends Activity {

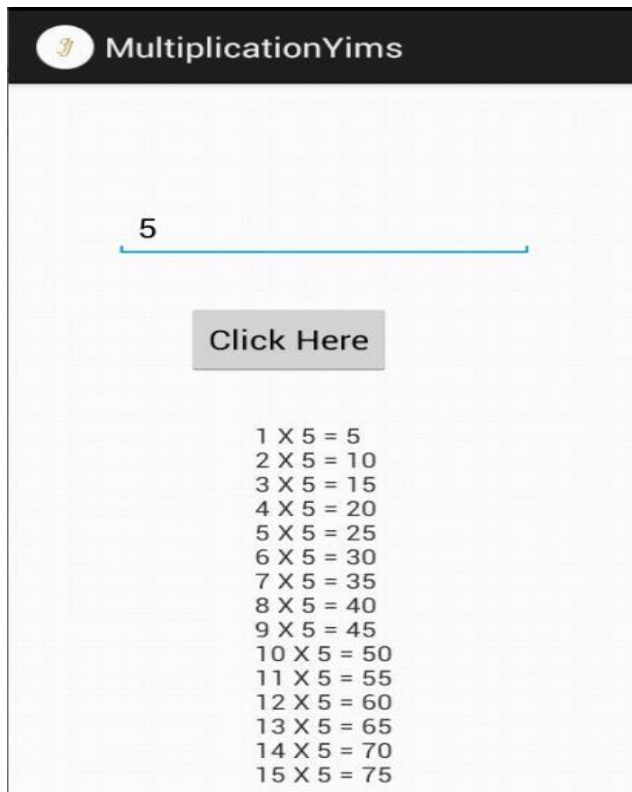
    EditText editText;
    Button button;
    TextView result;
    int ans=0;

    @Override
    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        editText=(EditText)findViewById(R.id.editText1);
        button=(Button)findViewById(R.id.button1);
        result=(TextView)findViewById(R.id.textView1);
        button.setOnClickListener(new OnClickListener() {
            @Override
            public void onClick(View arg0) {
                // TODO Auto-generated method stub
                StringBuffer buffer = new StringBuffer();
                String fs=editText.getText().toString();
                int n = Integer.parseInt(fs);
                for (int i = 1; i <= 15; i++) {
                    ans = (i * n);
                    buffer.append(i + " X " + n + " = " + ans + "\n");
                }
                result.setText(buffer);
            }
        });
    }
}
```

```
}  
});  
}
```

## OUTPUT



The screenshot shows the MultiplicationYims website. At the top, there is a black header with a logo and the text "MultiplicationYims". Below the header, the number "5" is displayed above a horizontal line. A button labeled "Click Here" is positioned below the line. Below the button, a list of multiplication facts for the number 5 is shown, ranging from 1 x 5 to 15 x 5.

5

Click Here

1 X 5 = 5  
2 X 5 = 10  
3 X 5 = 15  
4 X 5 = 20  
5 X 5 = 25  
6 X 5 = 30  
7 X 5 = 35  
8 X 5 = 40  
9 X 5 = 45  
10 X 5 = 50  
11 X 5 = 55  
12 X 5 = 60  
13 X 5 = 65  
14 X 5 = 70  
15 X 5 = 75

### 3. Program to Toast a message when a Button is pressed

#### Activity Main.Xml File

```
<RelativeLayout 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"
    tools:context=".MainActivity" >
    <Button
        android:id="@+id/Toast"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentTop="true"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="147dp"
        android:text="Click Here" />
</RelativeLayout>
```

#### MainActivity.java file

```
package com.example.toastmessage;
import android.os.Bundle;
import android.app.Activity;
import android.view.Menu;
import android.view.View;
import android.view.View.OnClickListener;
import android.widget.Button;
import android.widget.Toast;

public class MainActivity extends Activity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
}
```

```

Button button = (Button) findViewById(R.id.Toast);
button.setOnClickListener(new OnClickListener() {

    @Override

    public void onClick(View arg0) {

        // TODO Auto-generated method stub

        Toast t = Toast.makeText(getApplicationContext(),
        "Welcome To Android Proramming",Toast.LENGTH_SHORT); t.show();

    }

});
}

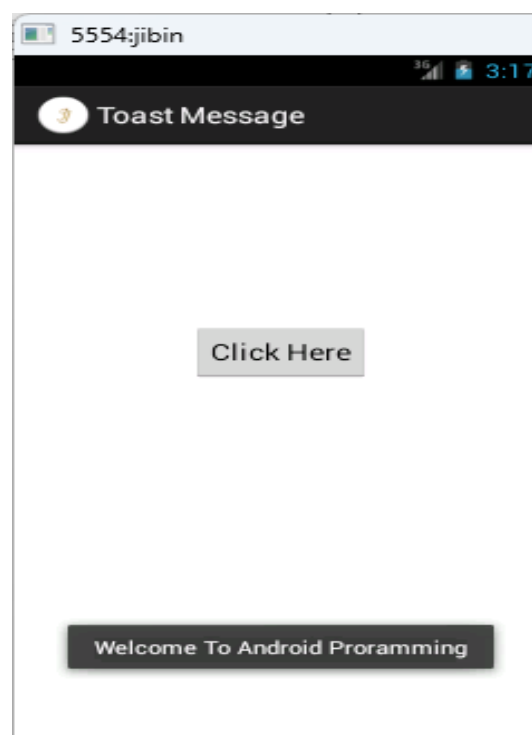
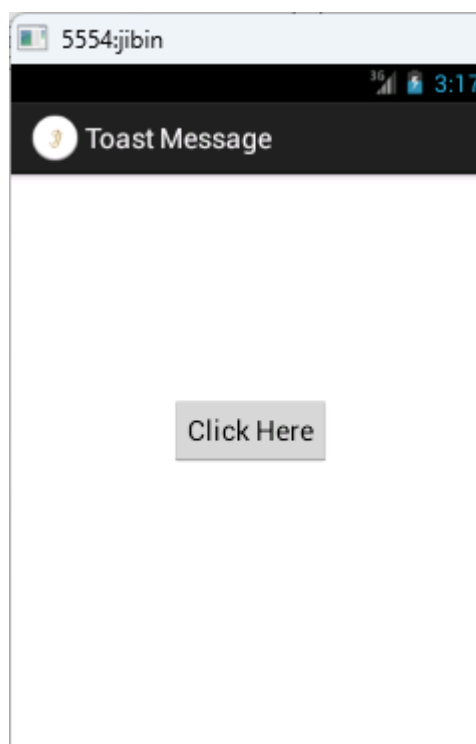
@Override

public boolean onCreateOptionsMenu(Menu menu) {

    // Inflate the menu; this adds items to the action bar if it is present.
    getMenuInflater().inflate(R.menu.activity_main, menu);
    return true;
}
}

```

## OUTPUT





## 4. Android application for adding two numbers

### Activity Main.Xml File

```
<RelativeLayout 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"
    tools:context=".MainActivity" >

    <TextView
        android:id="@+id/textView1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentTop="true"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="97dp"
        android:text="Addition"
        android:textAppearance="?android:attr/textAppearanceMedium" />
    <TextView
        android:id="@+id/textView2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentLeft="true"
        android:layout_below="@+id/textView1"
        android:layout_marginLeft="20dp"
        android:layout_marginTop="43dp"
        android:text="Number One"
        android:textAppearance="?android:attr/textAppearanceMedium" />
    <EditText
        android:id="@+id/txtNumber1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignBottom="@+id/textView2"
        android:layout_alignRight="@+id/textView1"
```

```
        android:ems="2"
        android:inputType="number">
        <requestFocus />
    </EditText>
    <TextView
        android:id="@+id/textView3"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignLeft="@+id/textView2"
        android:layout_below="@+id/textView2"
        android:layout_marginTop="47dp"
        android:text="Number Two"
        android:textAppearance="?android:attr/textAppearanceMedium" />
```

```
    <Button
        android:id="@+id/btnAdd"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignLeft="@+id/textView3"
        android:layout_alignRight="@+id/textView3"
        android:layout_below="@+id/textView3"
        android:layout_marginTop="46dp"
        android:text="Add" />
```

```
    <EditText
        android:id="@+id/txtNumber2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_above="@+id/btnAdd"
        android:layout_alignLeft="@+id/txtNumber1"
        android:ems="2"
        android:inputType="number" />
    <TextView
        android:id="@+id/txtResult"
        android:layout_width="wrap_content"
```

```
android:layout_height="wrap_content"
android:layout_alignRight="@+id/txtNumber2"
android:layout_alignTop="@+id/btnAdd"
android:textAppearance="?android:attr/textAppearanceMedium" />
</RelativeLayout>
```

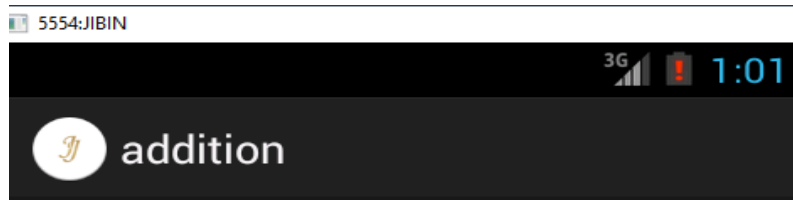
### MainActivity.java file

```
import android.os.Bundle;
import android.app.Activity;
import android.view.Menu;
import android.view.View;
import android.view.View.OnClickListener;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
public class MainActivity extends Activity {
    EditText firstNumber;
    EditText secondNumber;
    TextView addResult;
    Button btnAdd;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        firstNumber = (EditText)findViewById(R.id.txtNumber1);
        secondNumber = (EditText)findViewById(R.id.txtNumber2);
        addResult = (TextView)findViewById(R.id.txtResult);
        Button btnAdd = (Button)findViewById(R.id.btnAdd);
        btnAdd.setOnClickListener(new OnClickListener() {
            public void onClick(View v) {
                double num1 = Double.parseDouble(firstNumber.getText().toString());
                double num2 = Double.parseDouble(secondNumber.getText().toString());
                double sum = num1 + num2;
                addResult.setText(Double.toString(sum));
            }
        });
    }
}
```

```
}  
});  
}
```

## OUTPUT



### Addition

Number One

Number Two

30.0

## 5. Develop a simple user interface to display message

### Activity Main.Xml File

```
<RelativeLayout 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"
    tools:context=".MainActivity" >

    <Button
        android:id="@+id/button"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_centerHorizontal="true"
        android:layout_centerVertical="true"
        android:text="Click Here to Display Message" />

    <TextView
        android:id="@+id/display"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_above="@+id/button"
        android:layout_centerHorizontal="true"
        android:layout_marginBottom="26dp"
        android:text="Hi" />

</RelativeLayout>
```

### MainActivity.java file

```
package com.example.displaymessage;

import android.os.Bundle;
import android.app.Activity;
import android.view.Menu;
import android.view.View;
```

```

import android.widget.Button;
import android.widget.TextView;
import android.view.View.OnClickListener;
import android.widget.Toast;

public class MainActivity extends Activity {
    @Override

    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        final TextView display=(TextView)findViewById(R.id.display);
        Button button = (Button) findViewById(R.id.button);
        button.setOnClickListener(new OnClickListener() {

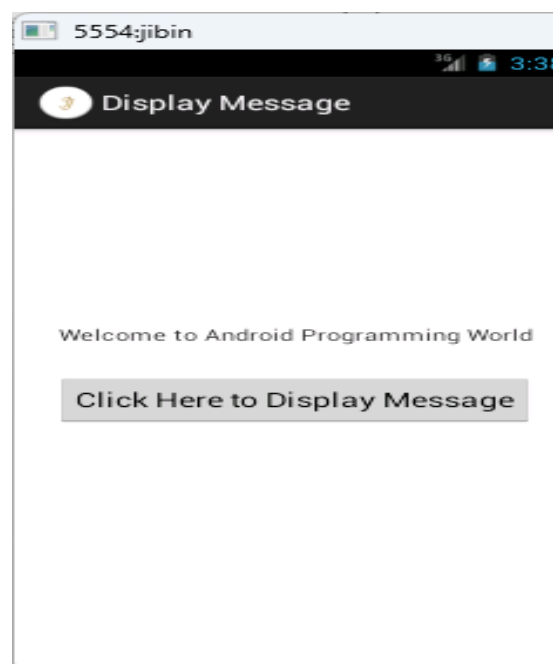
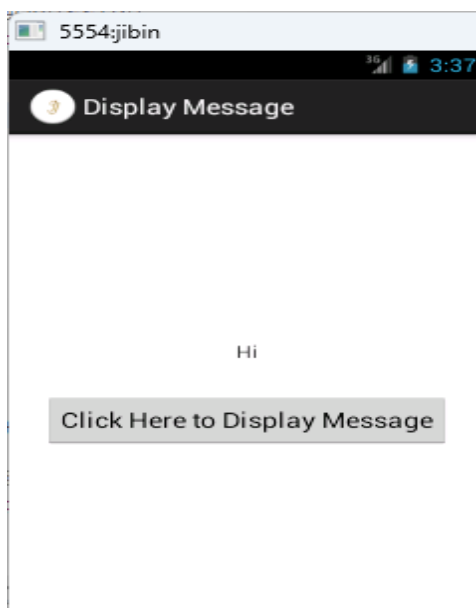
            @Override

            public void onClick(View arg0) {
                display.setText("Welcome to Android Programming World");
            }

        });
    }
}

```

## OUTPUT



## 6. Create two menu items-opening a file-saving a file

**Goto res> Menu> activity\_main.xml**

```
<menu xmlns:android="http://schemas.android.com/apk/res/android" >
    <item android:id="@+id/open"
        android:title="open a file"
        android:showAsAction="always"/>
    <item android:id="@+id/close"
        android:title="Save a file"
        android:showAsAction="always" />
</menu>
```

**MainActivity.java file**

```
package com.example.menu;
import android.os.Bundle;
import android.app.Activity;
import android.view.Menu;
import android.view.MenuItem;
import android.widget.Toast;

public class MainActivity extends Activity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
    @Override
    public boolean onCreateOptionsMenu(Menu menu) {
        // Inflate the menu; this adds items to the action bar if it is present.
        getMenuInflater().inflate(R.menu.activity_main, menu);
        return true;
    }
    public boolean onOptionsItemSelected(MenuItem item) {
```

```

switch (item.getItemId()){
    case R.id.open:
        Toast.makeText(getApplicationContext(),"File
Opened",Toast.LENGTH_LONG).show();
        return true;
    case R.id.close:
        Toast.makeText(getApplicationContext(),"File
Saved",Toast.LENGTH_LONG).show();
        return true;
    default:
        return super.onOptionsItemSelected(item);
}
}
}

```

## OUTPUT





## 6. Inserting values into Spinner control using Edit Text and Button

### Activity Main.Xml File

```
<RelativeLayout 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"
    tools:context=".MainActivity" >

    <EditText
        android:id="@+id/gettext"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentLeft="true"
        android:layout_below="@+id/textView1"
        android:layout_marginLeft="32dp"
        android:layout_marginTop="30dp"
        android:ems="10" >

        <requestFocus />
    </EditText>

    <TextView
        android:id="@+id/textView1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignLeft="@+id/gettext"
        android:layout_alignParentTop="true"
        android:layout_marginTop="40dp"
        android:text="Enter String value" />

    <Button
        android:id="@+id/add"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignRight="@+id/gettext"
        android:layout_below="@+id/gettext"
        android:layout_marginRight="68dp"
        android:layout_marginTop="23dp"
```

```
        android:text="Enter " />
    <Spinner
        android:id="@+id/spinner"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignLeft="@+id/gettext"
        android:layout_below="@+id/add"
        android:layout_marginLeft="19dp"
        android:layout_marginTop="28dp" />
</RelativeLayout>
```

### **MainActivity.java file**

```
package com.example.spinner;
import java.util.ArrayList;
import java.util.Collection;
import android.os.Bundle;
import android.annotation.SuppressLint;
import android.app.Activity;
import android.widget.Adapter;
import android.widget.AdapterView;
import android.widget.ArrayAdapter;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Spinner;
import android.widget.Toast;
import android.text.TextUtils;
import android.view.Menu;
import android.view.View;

public class MainActivity extends Activity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
```

```

        setContentView(R.layout.activity_main);
        final EditText selection = (EditText) findViewById(R.id.gettext);
        Spinner spin = (Spinner) findViewById(R.id.spinner);
        Button add = (Button) findViewById(R.id.add);
        final ArrayList<String> items = new ArrayList<String>();
        items.add("ITEMS");
        items.add("COMPUTER");
        items.add("MOUSE");
        ArrayAdapter aa = new ArrayAdapter(this, android.R.layout.simple_spinner_item, items);
        aa.setDropDownViewResource(
            android.R.layout.simple_spinner_dropdown_item);
        spin.setAdapter(aa);

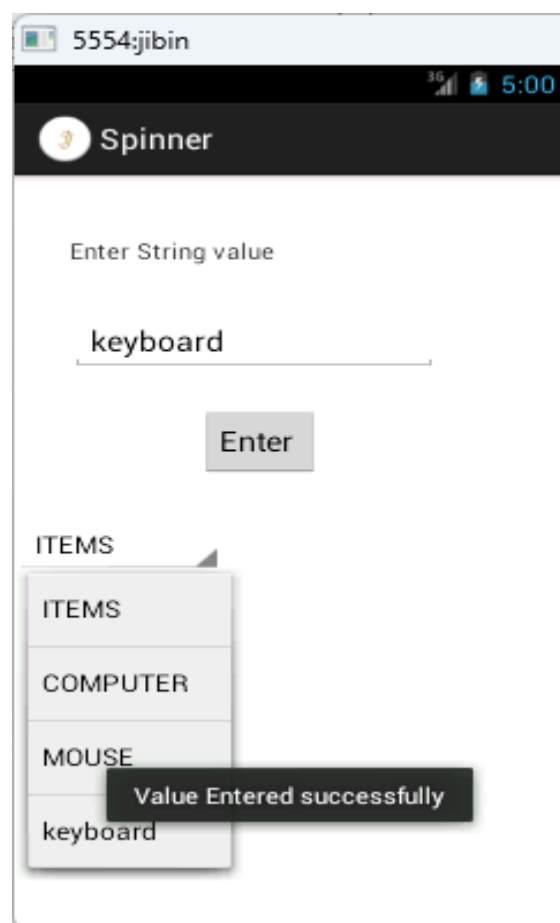
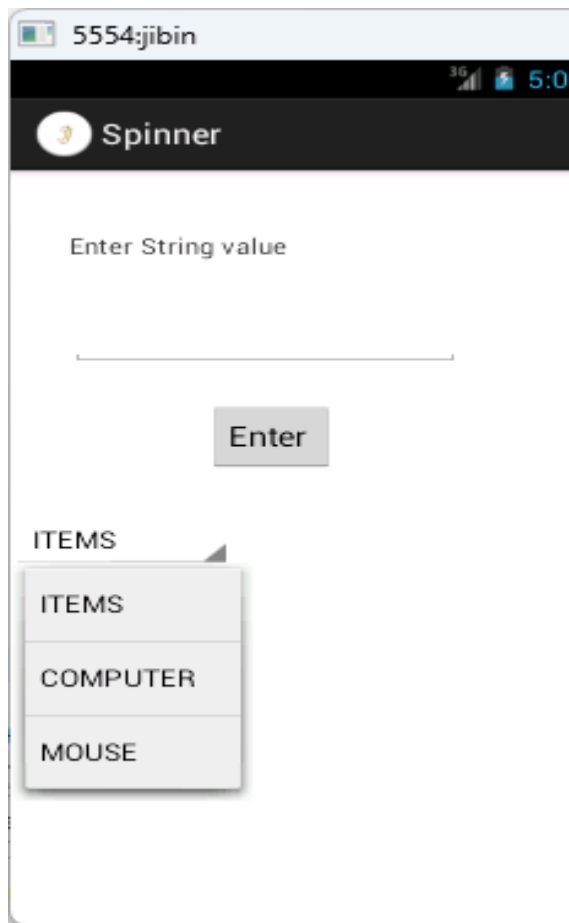
        add.setOnClickListener(new View.OnClickListener() {

@Override
        public void onClick(View arg0) {
            String getitem = selection.getText().toString();
            if(TextUtils.isEmpty(getitem))
            {
                Toast.makeText(MainActivity.this,
                    "Enter Some Value", Toast.LENGTH_SHORT).show();
            }
            else
            {
                items.add(getitem);
                Toast.makeText(MainActivity.this, "Value Entered successfully",
                    Toast.LENGTH_SHORT).show();
            }
        }

    });
}

```

## OUTPUT



## 7. Implementation of Background Image

### Activity Main.Xml File

```
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/rl"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity" >

    <Button
        android:id="@+id/button1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentTop="true"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="146dp"
        android:text="Image 1" />

    <Button
        android:id="@+id/button2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignRight="@+id/button1"
        android:layout_below="@+id/button1"
        android:layout_marginTop="25dp"
        android:text="Image 2" />

    <ImageView
        android:id="@+id/imageView1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@+id/button2"
        android:src="@drawable/yims" />

</RelativeLayout>
```

## MainActivity.java file

```
package com.example.changebackgroundimage;

import android.os.Bundle;

import android.app.Activity;

import android.view.Menu;

import android.view.View;

import android.widget.Button;

import android.widget.ImageView;


public class MainActivity extends Activity implements View.OnClickListener {

    ImageView v1;

    Button btn1;

    Button btn2;

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

        btn1=(Button)findViewById(R.id.button1);

        btn2=(Button)findViewById(R.id.button2);

        v1=(ImageView)findViewById(R.id.imageView1);

        btn1.setOnClickListener(this);

        btn2.setOnClickListener(this);

    }

    @Override

    public boolean onCreateOptionsMenu(Menu menu) {

        // Inflate the menu; this adds items to the action bar if it is present.

        getMenuInflater().inflate(R.menu.activity_main, menu);

        return true;

    }

    @Override

    public void onClick(View v) {

        switch(v.getId()){

            case R.id.button1:

                v1.setImageResource(R.drawable.jj);
```

```
        break;
    case R.id.button2:
        v1.setImageResource(R.drawable.yims);
        break;
    }
}
```

## OUTPUT

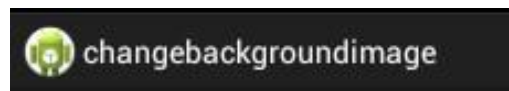


Image 1

Image 2

## 9. Implementation of arrayadapter

### Activity Main.Xml File

```
<RelativeLayout 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"
    tools:context=".MainActivity" >

    <Spinner
        android:id="@+id/spinner"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentRight="true"
        android:layout_alignParentTop="true"
        android:layout_marginTop="132dp" />

    <TextView
        android:id="@+id/textView1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentLeft="true"
        android:layout_alignParentTop="true"
        android:layout_marginLeft="62dp"
        android:layout_marginTop="54dp"
        android:text="Array Adapter Program" />

</RelativeLayout>
```

### MainActivity.java file

```
package com.example.arrayadapter;

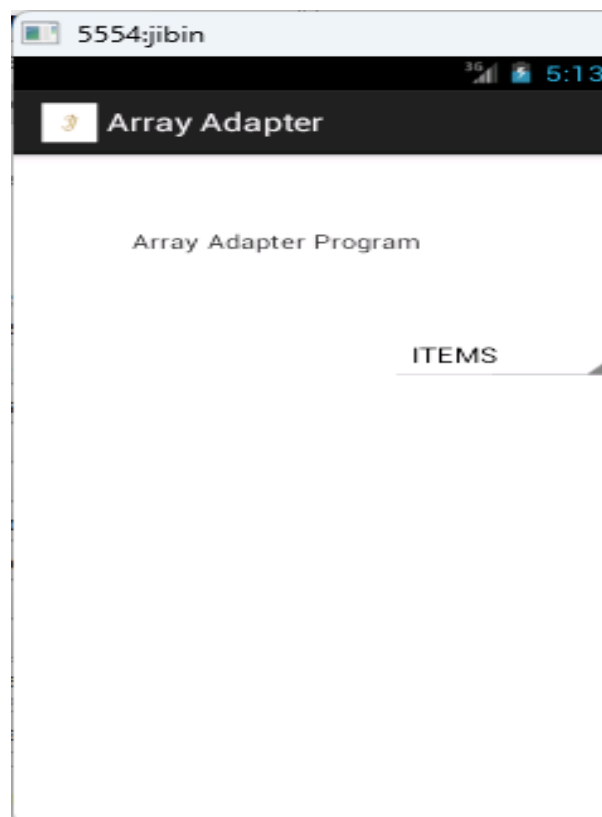
import java.util.ArrayList;
import android.os.Bundle;
import android.app.Activity;
import android.view.Menu;
import android.widget.ArrayAdapter;
```



```
import android.widget.Spinner;

public class MainActivity extends Activity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        Spinner spin = (Spinner) findViewById(R.id.spinner);
        final ArrayList<String> items = new ArrayList<String>();
        items.add("ITEMS");
        items.add("COMPUTER");
        items.add("MOUSE");
        ArrayAdapter aa = new ArrayAdapter(this,android.R.layout.simple_spinner_item,items);
        aa.setDropDownViewResource(
            android.R.layout.simple_spinner_dropdown_item);
        spin.setAdapter(aa);
    }
}
```

## **OUTPUT**



**10. Create an alert dialogs used to display a message and offer two button options to continue. Clicking either button will close the dialog after executing the attached click listener**

**Activity Main.Xml File**

```
<RelativeLayout 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"
    tools:context=".MainActivity" >

    <Button
        android:id="@+id/buttonAlert"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_centerHorizontal="true"
        android:layout_centerVertical="true"
        android:text="Show Alert Box" />

</RelativeLayout>
```

**MainActivity.java file**

```
import android.app.Activity;
import android.app.AlertDialog;
import android.content.Context;
import android.content.DialogInterface;
import android.os.Bundle;
import android.view.Menu;
import android.view.View;
import android.view.View.OnClickListener;
import android.widget.Button;

public class MainActivity extends Activity {
    final Context context = this;
```

```

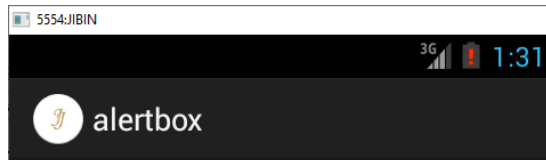
        private Button button;

@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    button = (Button) findViewById(R.id.buttonAlert);
    button.setOnClickListener(new OnClickListener() {
@Override
public void onClick(View arg0) {
    AlertDialog.Builder alertDialogBuilder = new AlertDialog.Builder(context);
    alertDialogBuilder.setTitle("Your Title");
    alertDialogBuilder.setMessage("Click yes to
exit!").setCancelable(false).setPositiveButton("Yes",new DialogInterface.OnClickListener()
{
    public void onClick(DialogInterface dialog,int id) {
        MainActivity.this.finish();
    }
    }).setNegativeButton("No",new DialogInterface.OnClickListener()
    {
    public void onClick(DialogInterface dialog,int id)
    {
        dialog.cancel();
    }
    });

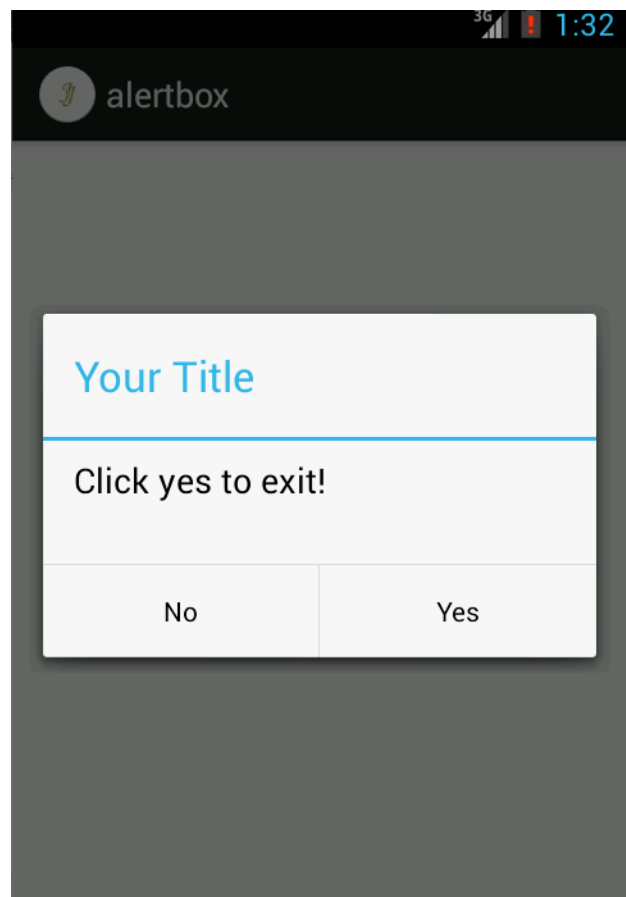
    AlertDialog alertDialog = alertDialogBuilder.create();
    alertDialog.show();
    }
    });
}

```

## OUTPUT



Show Alert Box



## 11. Load menu item by parsing XML data

### Goto res> Menu> activity\_main.xml

```
<menu xmlns:android="http://schemas.android.com/apk/res/android" >
    <item android:id="@+id/search_item"
        android:title="Search" />
    <item android:id="@+id/upload_item"
        android:title="Upload" />
    <item android:id="@+id/copy_item"
        android:title="Copy" />
    <item android:id="@+id/print_item"
        android:title="Print" />
</menu>
```

### MainActivity.java file

```
package com.example.menuparsing;
import android.os.Bundle;
import android.app.Activity;
import android.view.Menu;
import android.view.MenuItem;
import android.widget.Toast;

public class MainActivity extends Activity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
    @Override
    public boolean onCreateOptionsMenu(Menu menu) {
        // Inflate the menu; this adds items to the action bar if it is present.
        getMenuInflater().inflate(R.menu.activity_main, menu);
    }
}
```

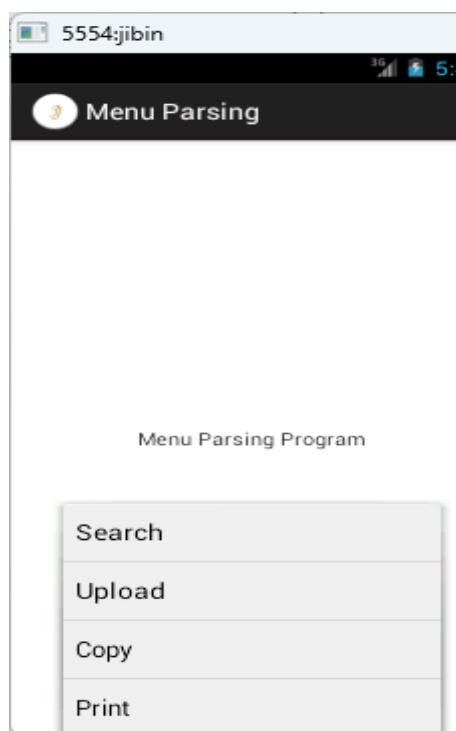
```

        return true;
    }

    public boolean onOptionsItemSelected(MenuItem item) {
        Toast.makeText(this, "Selected Item: " + item.getTitle(), Toast.LENGTH_SHORT)
            .show();
        switch (item.getItemId()) {
            case R.id.search_item:
                return true;
            case R.id.upload_item:
                return true;
            case R.id.copy_item:
                return true;
            case R.id.print_item:
                return true;
            default:
                return super.onOptionsItemSelected(item);
        }
    }
}

```

## OUTPUT



## 12. A Button control shows Date picker and Text view control displays selected date

### Activity Main.Xml File

```
<RelativeLayout 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"
    tools:context=".MainActivity" >

    <Button
        android:id="@+id/btnTime"
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:layout_alignParentBottom="true"
        android:layout_alignParentLeft="true"
        android:layout_marginBottom="139dp"
        android:text="Set the Time" />

    <Button
        android:id="@+id/btnDate"
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:layout_above="@+id/btnTime"
        android:layout_alignParentLeft="true"
        android:text="Set the Date" />

    <TextView
        android:id="@+id/lblDateAndTime"
        android:layout_width="fill_parent"
        android:layout_height="67dp"
        android:layout_alignParentLeft="true"
        android:layout_alignParentTop="true"
        android:layout_marginTop="48dp"
        android:background="#FFFFFF"
        android:textStyle="bold" />

</RelativeLayout>
```

## MainActivity.java file

```
import android.app.Activity;
import android.os.Bundle;
import android.app.DatePickerDialog;
import android.app.TimePickerDialog;
import android.view.Menu;
import android.view.View;
import android.widget.Button;
import android.widget.DatePicker;
import android.widget.TimePicker;
import android.widget.TextView;
import java.text.DateFormat;
import java.util.Calendar;
public class MainActivity extends Activity {
    DateFormat fmtDateAndTime = DateFormat.getDateTimeInstance();
    TextView lblDateAndTime;
    Calendar myCalendar = Calendar.getInstance();
    DatePickerDialog.OnDateSetListener d = new DatePickerDialog.OnDateSetListener()
    {
        public void onDateSet(DatePicker view, int year, int monthOfYear,
            int dayOfMonth) {
            myCalendar.set(Calendar.YEAR, year);
            myCalendar.set(Calendar.MONTH, monthOfYear);
            myCalendar.set(Calendar.DAY_OF_MONTH, dayOfMonth);
            updateLabel();
        }
    };
    TimePickerDialog.OnTimeSetListener t = new
    TimePickerDialog.OnTimeSetListener()
    {
        public void onTimeSet(TimePicker view, int hourOfDay, int minute) {
            myCalendar.set(Calendar.HOUR_OF_DAY, hourOfDay);
            myCalendar.set(Calendar.MINUTE, minute);
            updateLabel();
        }
    };
}
```



```

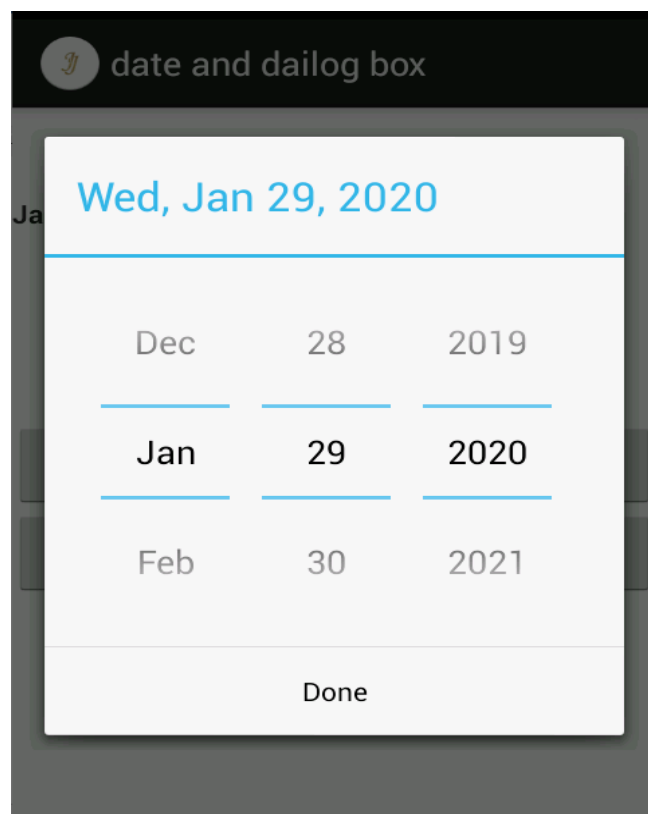
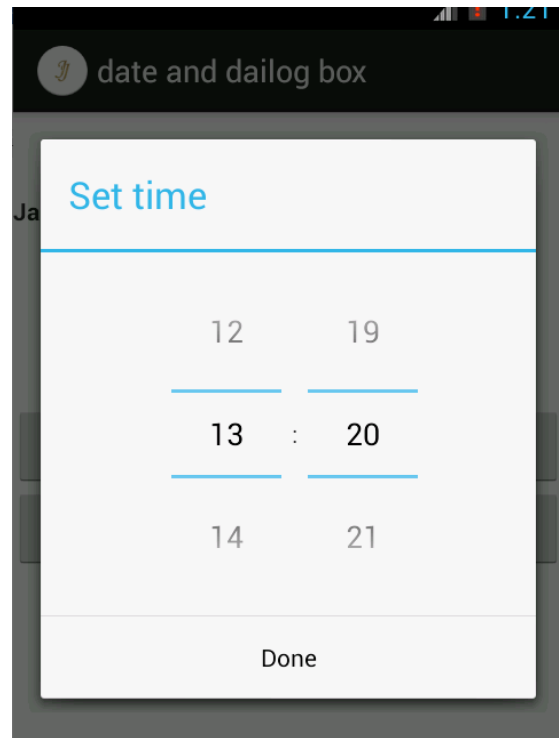
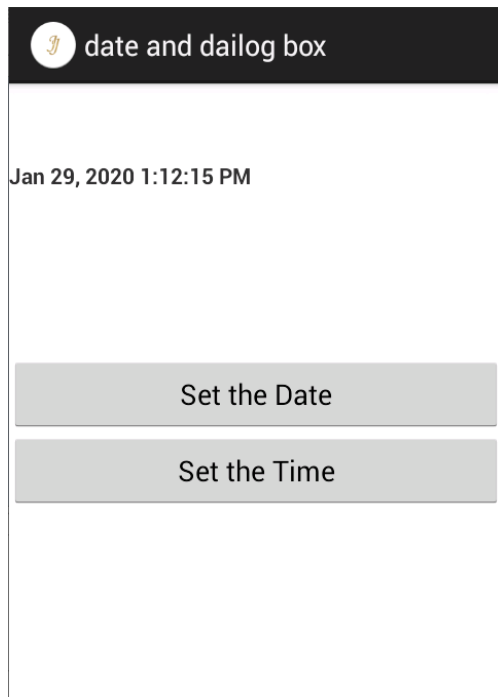
    }
};

private void updateLabel() {
    lblDateAndTime.setText(fmtDateAndTime.format(myCalendar.getTime()));
}

@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    lblDateAndTime = (TextView) findViewById(R.id.lblDateAndTime);
    Button btnDate = (Button) findViewById(R.id.btnDate);
    btnDate.setOnClickListener(new View.OnClickListener() {
        public void onClick(View v) {
            new DatePickerDialog(MainActivity.this, d, myCalendar .get(Calendar.YEAR),
myCalendar.get(Calendar.MONTH),myCalendar.get(Calendar.DAY_OF_MONTH)).show();
        }
    });
    Button btnTime = (Button) findViewById(R.id.btnTime);
    btnTime.setOnClickListener(new View.OnClickListener() {
        public void onClick(View v) {
            new TimePickerDialog(MainActivity.this, t, myCalendar
.get(Calendar.HOUR_OF_DAY), myCalendar .get(Calendar.MINUTE), true).show();
        }
    });
    updateLabel();
}

```

## OUTPUT



### 13. Create a spinner that takes data from the String.xml file

Goto>Res/values/strings.xml

```
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <string name="app_name">Spinner new</string>
    <string name="menu_settings">Settings</string>
    <string-array name="fruits">
        <item>Apple</item>
        <item>Orange</item>
        <item>PineApple</item>
        <item>Watermelon</item>
    </string-array>
</resources>
```

#### Activity Main.Xml File

```
<RelativeLayout 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"
    tools:context=".MainActivity" >

    <TextView
        android:id="@+id/textView1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentLeft="true"
        android:layout_alignParentTop="true"
        android:layout_marginLeft="97dp"
        android:layout_marginTop="40dp"
        android:text="SPINNER PROGRAM" />

    <Spinner
```

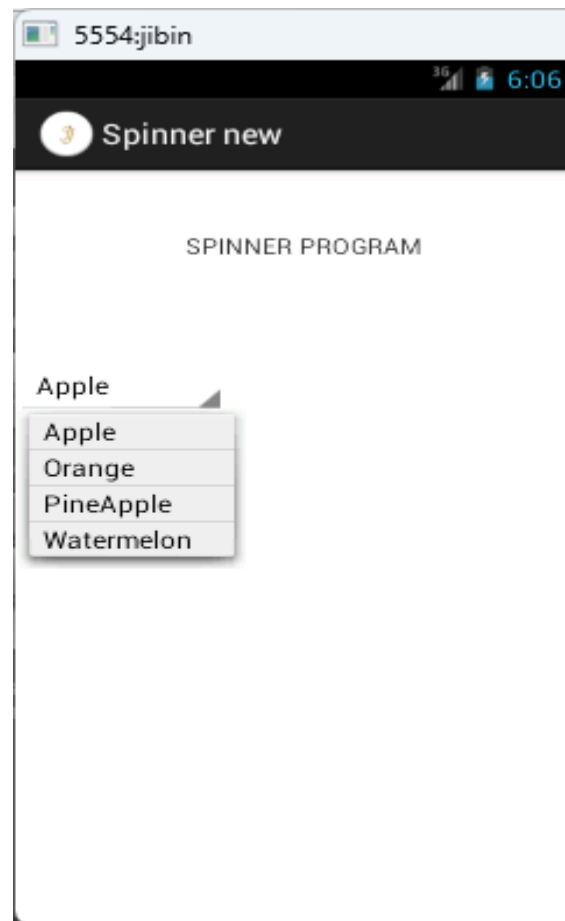
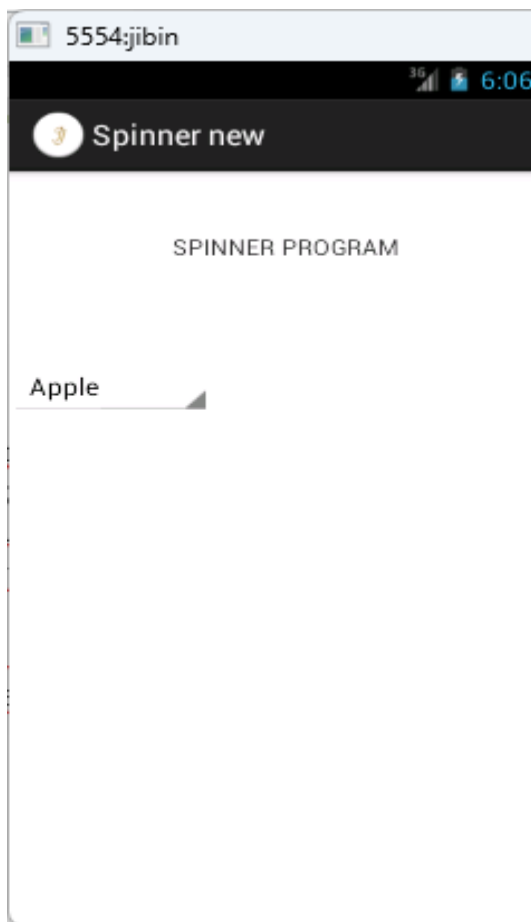
```
android:id="@+id/spinner"  
android:layout_width="wrap_content"  
android:layout_height="wrap_content"  
android:layout_alignParentLeft="true"  
android:layout_below="@+id/textView1"  
android:layout_marginTop="65dp" />
```

```
</RelativeLayout>
```

### **MainActivity.java file**

```
package com.example.spinnernew;  
import android.os.Bundle;  
import android.app.Activity;  
import android.view.Menu;  
import android.widget.ArrayAdapter;  
import android.widget.Spinner;  
  
public class MainActivity extends Activity {  
    @Override  
    protected void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
        setContentView(R.layout.activity_main);  
        Spinner spin = (Spinner) findViewById(R.id.spinner);  
        ArrayAdapter adapter = ArrayAdapter.createFromResource(this, R.array.fruits,  
            android.R.layout.simple_spinner_item);  
        spin.setAdapter(adapter);  
    }  
}
```

## OUTPUT



## 14. Write a program to Get IP Address of the device

### AndroidManifest.xml

**Add code:**

```
<uses-permission android:name="android.permission.ACCESS_WIFI_STATE"/>
<uses-permission android:name="android.permission.INTERNET" />
<uses-permission android:name="android.permission.ACCESS_NETWORK_STATE" />
```

### Activity Main.Xml File

```
<RelativeLayout 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"
    tools:context=".MainActivity" >

    <TextView
        android:id="@+id/getIPAddress"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_centerHorizontal="true"
        android:layout_centerVertical="true"
        android:text="Please wait.. IP Loading" />

</RelativeLayout>
```

### MainActivity.java file

```
package com.example.getip;
import java.io.BufferedReader;
import java.io.InputStreamReader;
import java.net.HttpURLConnection;
import java.net.URL;
```

```
import java.util.ArrayList;
import android.os.Bundle;
import android.app.Activity;
import android.util.Log;
import android.view.Menu;
import android.widget.TextView;
```

```
public class MainActivity extends Activity {
    TextView textView;

    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        textView = (TextView)findViewById(R.id.getIPAddress);
        getPublicIP();
    }
```

```
    private void getPublicIP() {
        new Thread(new Runnable(){
            ArrayList<String> urls=new ArrayList<String>();
```

```
        public void run(){
            try {
                URL url = new URL("https://api.ipify.org/");
                HttpURLConnection conn=(HttpURLConnection) url.openConnection();
                conn.setConnectTimeout(60000);
                BufferedReader in = new BufferedReader(new
InputStreamReader(conn.getInputStream()));
                String str;
                while ((str = in.readLine()) != null) {
                    urls.add(str);
                }
                in.close();
            } catch (Exception e) {
```

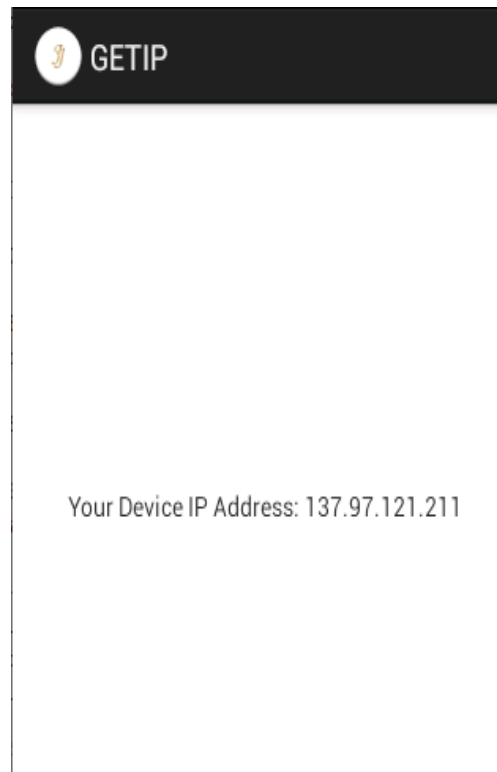
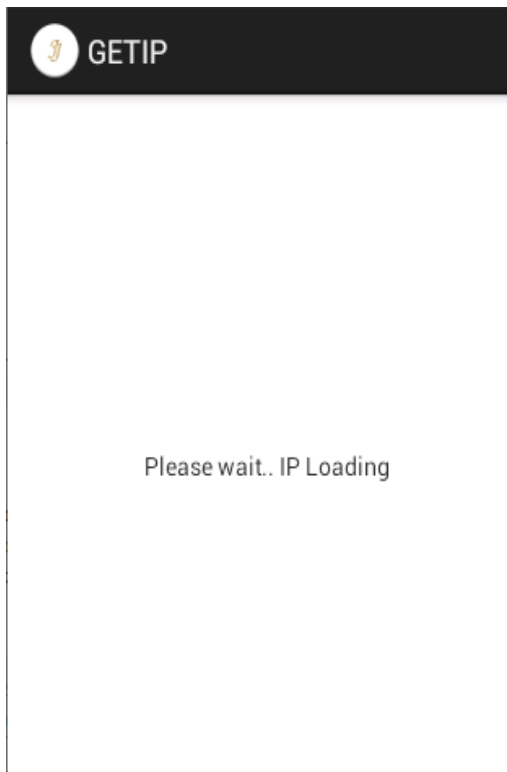
```

        Log.d("MyTag",e.toString());
    }
    MainActivity.this.runOnUiThread(new Runnable(){
        public void run(){
            try {
                textView.setText("Your Device IP Address: " + urls.get(0));
            }
            catch (Exception e){
                textView.setText("Please check Network Connectivity");
            }
        }
    });
}
}).start();

}

```

## OUTPUT





## 15. Write a program to start another activity from your own activity using intent

### Activity Main.Xml File

```
<RelativeLayout 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"
    tools:context=".MainActivity" >
```

```
<TextView
    android:id="@+id/textView1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentTop="true"
    android:layout_centerHorizontal="true"
    android:layout_marginTop="72dp"
    android:text="First Activity" />
```

```
<Button
    android:id="@+id/button1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentLeft="true"
    android:layout_below="@+id/textView1"
    android:layout_marginLeft="30dp"
    android:layout_marginTop="32dp"
    android:text="Click Here For Next Activity" />
```

```
</RelativeLayout>
```

### Second.Xml File

```
<?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="match_parent" >
```

```
<TextView
```

```
    android:id="@+id/textView1"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:layout_alignParentLeft="true"  
    android:layout_alignParentTop="true"  
    android:layout_marginLeft="116dp"  
    android:layout_marginTop="138dp"  
    android:text="Second Activity" />
```

```
</RelativeLayout>
```

### **MainActivity.java file**

```
package com.example.intent;  
  
import android.os.Bundle;  
import android.app.Activity;  
import android.view.Menu;  
import android.content.Intent;  
import android.view.View;  
import android.widget.Button;  
  
public class MainActivity extends Activity {  
    Button jumpbtn;  
  
    @Override  
    protected void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
        setContentView(R.layout.activity_main);  
        jumpbtn = (Button)findViewById(R.id.button1);  
        jumpbtn.setOnClickListener(new View.OnClickListener() {  
            @Override  
            public void onClick(View v) {  
                // TODO Auto-generated method stub  
                Intent i = new Intent(MainActivity.this, Newactivity.class);  
                startActivity(i);  
            }  
        });  
    }  
}
```

```
}  
});  
}
```

### **SecondActivity.java file**

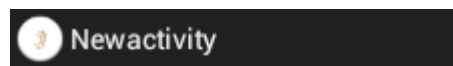
```
package com.example.intent;  
import android.os.Bundle;  
import android.app.Activity;  
import android.view.Menu;  
public class Newactivity extends Activity {  
  
    @Override  
    protected void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
        setContentView(R.layout.second);  
    }  
    @Override  
    public boolean onCreateOptionsMenu(Menu menu) {  
        // Inflate the menu; this adds items to the action bar if it is present.  
        getMenuInflater().inflate(R.menu.activity_newactivity, menu);  
        return true;  
    }  
}
```

### **OUTPUT**



First Activity

Click Here For Next Activity



Second Activity