Practical list 1

```xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout 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=".pr1_textview"
    android:orientation="vertical">

    <TextView
        android:id="@+id/textView1"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="UKA Tarsadia University"
        android:textSize="20dp"
        android:layout_marginLeft="20dp"
        android:layout_marginRight="20dp"
        android:textColor="@color/black"/>

    <TextView
        android:id="@+id/textViewl1"
        android:layout_width="match_parent"
        android:layout_height="1dp"
        android:text="TextView"
        android:background="@color/black"/>
```

```xml
<TextView

    android:id="@+id/textView2"

    android:layout_width="match_parent"

    android:layout_height="wrap_content"

    android:text="Maliba Campus , \nGopal Vidyanagar , \nBardoli-Mahuva Road ,\nTarsadia - 394 350.
\nDist:Surat \nGujarat, INDIA."

    android:textSize="20dp"

    android:layout_marginLeft="20dp"

    android:layout_marginRight="20dp"

    android:textColor="@color/black"/>


<TextView

    android:id="@+id/textViewl2"

    android:layout_width="match_parent"

    android:layout_height="1dp"

    android:text="TextView"

    android:background="@color/black"/>


<TextView

    android:id="@+id/textView3"

    android:layout_width="match_parent"

    android:layout_height="wrap_content"

    android:text="+91 2625 290020 \n +91 2625 290074"

    android:textSize="20dp"

    android:layout_marginLeft="20dp"

    android:layout_marginRight="20dp"

    android:textColor="@color/black"/>


<TextView
```

```xml
        android:id="@+id/textViewl3"

        android:layout_width="match_parent"

        android:layout_height="1dp"

        android:text="TextView"

        android:background="@color/black"/>



</LinearLayout>
```

Practical list 2

```xml
<?xml version="1.0" encoding="utf-8"?>

<LinearLayout 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=".pr2_layout2"

android:orientation="vertical"

android:layout_marginTop="200dp"

android:padding="8dp">



<LinearLayout

    android:layout_width="wrap_content"

    android:layout_height="wrap_content"

    android:orientation="horizontal"

    tools:context=".pr2_layout2" >



    <Button
```

```xml
        android:id="@+id/button"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:text="DHONI"

        android:padding="15dp"/>


    <Button

        android:id="@+id/button2"

        android:layout_width="108dp"

        android:layout_height="wrap_content"

        android:text="SACHIN"

        android:padding="15dp"/>


</LinearLayout>

<LinearLayout

    android:layout_width="wrap_content"

    android:layout_height="wrap_content"

    tools:context=".pr2_layout2"

    android:orientation="horizontal">


    <Button

        android:id="@+id/button5"

        android:layout_width="215dp"

        android:layout_height="wrap_content"

        android:text="YUVRAJ"

        android:padding="15dp"/>


    <Button

        android:id="@+id/button6"
```

```xml
    android:layout_width="194dp"

    android:layout_height="wrap_content"

    android:text="VIRAT"

    />


</LinearLayout>
<LinearLayout

  android:layout_width="wrap_content"

  android:layout_height="wrap_content"

  tools:context=".pr2_layout2"

  android:orientation="horizontal">

  <Button

    android:id="@+id/button3"

    android:layout_width="272dp"

    android:layout_height="wrap_content"

    android:text="HARBHAJAN"

    android:padding="15dp"/>


  <Button

    android:id="@+id/button4"

    android:layout_width="133dp"

    android:layout_height="wrap_content"

    android:text="RAHUL" />
</LinearLayout>
</LinearLayout>
```

```xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"

  xmlns:app="http://schemas.android.com/apk/res-auto"
```

```xml
    xmlns:tools="http://schemas.android.com/tools"

    android:layout_width="match_parent"

    android:layout_height="match_parent"

    tools:context=".pr2_layout1">


    <ImageView

        android:id="@+id/imageView4"

        android:layout_width="123dp"

        android:layout_height="128dp"

        android:layout_alignParentEnd="true"

        android:layout_alignParentBottom="true"

        android:layout_marginEnd="254dp"

        android:layout_marginBottom="569dp"

        app:srcCompat="@android:mipmap/sym_def_app_icon" />


    <ImageView

        android:id="@+id/imageView5"

        android:layout_width="123dp"

        android:layout_height="130dp"

        android:layout_alignParentStart="true"

        android:layout_alignParentEnd="true"

        android:layout_alignParentBottom="true"

        android:layout_marginStart="144dp"

        android:layout_marginEnd="144dp"

        android:layout_marginBottom="320dp"

        app:srcCompat="@android:mipmap/sym_def_app_icon" />
    <ImageView

        android:id="@+id/imageView8"

        android:layout_width="120dp"
```

```
        android:layout_height="123dp"

        android:layout_alignParentEnd="true"

        android:layout_alignParentBottom="true"

        android:layout_marginEnd="33dp"

        android:layout_marginBottom="37dp"

        app:srcCompat="@android:mipmap/sym_def_app_icon" />
```

</RelativeLayout>

Practical list 3

Q-2

==
XML file
==

```
<?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">


    <TextView
```

```xml
    android:id="@+id/textView"

    android:layout_width="wrap_content"

    android:layout_height="wrap_content"

    android:text="Calculator"

    android:textSize="30sp"

    app:layout_constraintBottom_toBottomOf="parent"

    app:layout_constraintHorizontal_bias="0.498"

    app:layout_constraintLeft_toLeftOf="parent"

    app:layout_constraintRight_toRightOf="parent"

    app:layout_constraintTop_toTopOf="parent"

    app:layout_constraintVertical_bias="0.047" />


<EditText

    android:id="@+id/editText1"

    android:layout_width="wrap_content"

    android:layout_height="wrap_content"

    android:ems="10"

    android:inputType="textPersonName"

    android:text="Enter number 1"

    android:textSize="24sp"

    app:layout_constraintBottom_toBottomOf="parent"

    app:layout_constraintEnd_toEndOf="parent"

    app:layout_constraintHorizontal_bias="0.497"

    app:layout_constraintStart_toStartOf="parent"

    app:layout_constraintTop_toTopOf="parent"

    app:layout_constraintVertical_bias="0.139" />


<EditText

    android:id="@+id/editText2"
```

```xml
        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:ems="10"

        android:inputType="textPersonName"

        android:text="Enter number 2"

        android:textSize="24sp"

        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintHorizontal_bias="0.497"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent"

        app:layout_constraintVertical_bias="0.23" />


    <Button

        android:id="@+id/add"

        android:layout_width="66dp"

        android:layout_height="51dp"

        android:text="+"

        android:textSize="18sp"

        app:backgroundTint="#737171"

        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintHorizontal_bias="0.078"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent"

        app:layout_constraintVertical_bias="0.346"

        app:rippleColor="#A89696" />


    <Button
```

```xml
    android:id="@+id/div"

    android:layout_width="66dp"

    android:layout_height="51dp"

    android:text="/"

    android:textSize="18sp"

    app:backgroundTint="#737171"

    app:layout_constraintBottom_toBottomOf="parent"

    app:layout_constraintEnd_toEndOf="parent"

    app:layout_constraintHorizontal_bias="0.907"

    app:layout_constraintStart_toStartOf="parent"

    app:layout_constraintTop_toTopOf="parent"

    app:layout_constraintVertical_bias="0.345"

    app:rippleColor="#A89696" />


<Button

    android:id="@+id/mul"

    android:layout_width="66dp"

    android:layout_height="51dp"

    android:text="*"

    android:textSize="18sp"

    app:backgroundTint="#737171"

    app:layout_constraintBottom_toBottomOf="parent"

    app:layout_constraintEnd_toEndOf="parent"

    app:layout_constraintHorizontal_bias="0.634"

    app:layout_constraintStart_toStartOf="parent"

    app:layout_constraintTop_toTopOf="parent"

    app:layout_constraintVertical_bias="0.345"

    app:rippleColor="#A89696" />
```

```xml
<Button
    android:id="@+id/sub"
    android:layout_width="66dp"
    android:layout_height="51dp"
    android:text="-"
    android:textSize="18sp"
    app:backgroundTint="#737171"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.356"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.345"
    app:rippleColor="#A89696" />

<TextView
    android:id="@+id/textView2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Answer:"
    android:textSize="24sp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.236"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.457" />

<TextView
```

```xml
        android:id="@+id/answer"

        android:layout_width="157dp"

        android:layout_height="38dp"

        android:textSize="24sp"

        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintHorizontal_bias="0.736"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent"

        app:layout_constraintVertical_bias="0.453" />


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

==
Java file
==
```java
package com.example.pr3_q2;


import androidx.appcompat.app.AppCompatActivity;


import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import android.widget.TextView;


public class MainActivity extends AppCompatActivity {

    EditText e1,e2;
```

```java
TextView t1;

Button a1,sub1,m1,d1;

int num1,num2;


@Override

protected void onCreate(Bundle savedInstanceState) {

    super.onCreate(savedInstanceState);

    setContentView(R.layout.activity_main);


    e1=findViewById(R.id.editText1);

    e2=findViewById(R.id.editText2);

    t1=findViewById(R.id.answer);




    a1=findViewById(R.id.add);

    sub1=findViewById(R.id.sub);

    m1=findViewById(R.id.mul);

    d1=findViewById(R.id.div);


    onclick();

}

public void onclick(){

    a1.setOnClickListener(new View.OnClickListener() {

        @Override

        public void onClick(View v) {

            String s1=e1.getText().toString();

            String s2=e2.getText().toString();

            if((s1.equals(null) && s2.equals(null)) || (s1.equals("") && s2.equals("")))
```

```java
            {
                String result="Please enter value";

                t1.setText(result);

            }

            else

            {

                num1=Integer.parseInt(e1.getText().toString());

                num2=Integer.parseInt(e2.getText().toString());

                int sum=num1+num2;

                t1.setText(Integer.toString(sum));

            }

        }

    });

    sub1.setOnClickListener(new View.OnClickListener() {

        @Override

        public void onClick(View v) {

            String s1=e1.getText().toString();

            String s2=e2.getText().toString();

            if((s1.equals(null) && s2.equals(null)) || (s1.equals("") && s2.equals("")))

            {

                String result="Please enter value";

                t1.setText(result);

            }

            else

            {

                num1=Integer.parseInt(e1.getText().toString());

                num2=Integer.parseInt(e2.getText().toString());

                int sum=num1-num2;

                t1.setText(Integer.toString(sum));
```

```java
        }

    }



});
m1.setOnClickListener(new View.OnClickListener() {

    @Override

    public void onClick(View v) {

        String s1=e1.getText().toString();

        String s2=e2.getText().toString();

        if((s1.equals(null) && s2.equals(null)) || (s1.equals("") && s2.equals("")))

        {

            String result="Please enter value";

            t1.setText(result);

        }

        else

        {

            num1=Integer.parseInt(e1.getText().toString());

            num2=Integer.parseInt(e2.getText().toString());

            int sum=num1*num2;

            t1.setText(Integer.toString(sum));

        }

    }



});
d1.setOnClickListener(new View.OnClickListener() {

    @Override

    public void onClick(View v) {

        String s1=e1.getText().toString();

        String s2=e2.getText().toString();
```

```java
        if((s1.equals(null) && s2.equals(null)) || (s1.equals("") && s2.equals("")))

        {

            String result="Please enter value";

            t1.setText(result);

        }

        else

        {

            num1=Integer.parseInt(e1.getText().toString());

            num2=Integer.parseInt(e2.getText().toString());

            double sum=num1/num2;

            t1.setText(Double.toString(sum));

        }

      }

    });

  }

}
```

Q-3

XML FILE

```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"
```

```xml
    tools:context=".MainActivity">

    <TextView
        android:id="@+id/textView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Select any one Course:"
        android:textSize="24sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.208"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.041" />

    <RadioGroup
        android:id="@+id/radiogroup"
        android:layout_width="295dp"
        android:layout_height="283dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.301"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.169">

        <RadioButton
            android:id="@+id/radioButton"
            android:layout_width="match_parent"
```

```xml
        android:layout_height="wrap_content"

        android:text="MScIT"

        android:textSize="18sp" />

    <RadioButton

        android:id="@+id/radioButton2"

        android:layout_width="match_parent"

        android:layout_height="wrap_content"

        android:text="BCA"

        android:textSize="18sp" />

    <RadioButton

        android:id="@+id/radioButton3"

        android:layout_width="match_parent"

        android:layout_height="wrap_content"

        android:text="BBA"

        android:textSize="18sp" />

    <RadioButton

        android:id="@+id/radioButton4"

        android:layout_width="match_parent"

        android:layout_height="wrap_content"

        android:text="MBA"

        android:textSize="18sp" />

</RadioGroup>

<Button

    android:id="@+id/click"
```

```
        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:text="Submit"

        android:textSize="24sp"

        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent"

        app:layout_constraintVertical_bias="0.579" />


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

JAVA FILE

```
package com.example.radiobutton;


import androidx.appcompat.app.AppCompatActivity;


import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.RadioButton;

import android.widget.RadioGroup;

import android.widget.Toast;


public class MainActivity extends AppCompatActivity {


    RadioGroup radiogroup;
```

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

    click=findViewById(R.id.click);
    radiogroup=findViewById(R.id.radiogroup);

    radio();
    onclick();
}
public void radio(){
    radiogroup.setOnCheckedChangeListener(new RadioGroup.OnCheckedChangeListener() {
        @Override
        public void onCheckedChanged(RadioGroup group, int checkedId) {
            RadioButton radioButton=(RadioButton)group.findViewById(checkedId);
        }
    });
}

public void onclick(){
    click.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            int selectedId=radiogroup.getCheckedRadioButtonId();
            if(selectedId == -1)
            {
```

```
                Toast.makeText(getApplicationContext(),"No course is
selected",Toast.LENGTH_LONG).show();

        }

        else

        {

            RadioButton radiobutton=(RadioButton)radiogroup.findViewById(selectedId);

            Toast.makeText(getApplicationContext(),radiobutton.getText(),Toast.LENGTH_LONG).show();

        }

      }

    });

  }

}
```

Q-4

XML FILE

```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">


  <TextView

    android:layout_width="wrap_content"

    android:layout_height="wrap_content"

    android:text="Select Option:"

    android:textSize="30sp"
```

```xml
        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintHorizontal_bias="0.231"

        app:layout_constraintLeft_toLeftOf="parent"

        app:layout_constraintRight_toRightOf="parent"

        app:layout_constraintTop_toTopOf="parent"

        app:layout_constraintVertical_bias="0.056" />


    <CheckBox

        android:id="@+id/checkBox"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:text="Iphone"

        android:textSize="24sp"

        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintHorizontal_bias="0.164"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent"

        app:layout_constraintVertical_bias="0.143" />


    <CheckBox

        android:id="@+id/checkBox2"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:text="Android"

        android:textSize="24sp"

        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintHorizontal_bias="0.168"
```

```
        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent"

        app:layout_constraintVertical_bias="0.225" />


    <CheckBox

        android:id="@+id/checkBox3"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:text="Windows"

        android:textSize="24sp"

        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintHorizontal_bias="0.177"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent"

        app:layout_constraintVertical_bias="0.307" />


    <Button

        android:id="@+id/click"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:text="Submit"

        android:textSize="30sp"

        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintHorizontal_bias="0.498"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent"

        app:layout_constraintVertical_bias="0.457" />
```

</androidx.constraintlayout.widget.ConstraintLayout>

JAVA FILE

---

package com.example.pr_3_q4;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.CheckBox;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

   CheckBox ch1,ch2,ch3;

   Button click;

   @Override

   protected void onCreate(Bundle savedInstanceState) {

     super.onCreate(savedInstanceState);

     setContentView(R.layout.activity_main);

     ch1=findViewById(R.id.checkBox);

     ch2=findViewById(R.id.checkBox2);

     ch3=findViewById(R.id.checkBox3);

     click=findViewById(R.id.click);

     click();

```java
    }


    public void click(){

        click.setOnClickListener(new View.OnClickListener() {

            @Override


            public void onClick (View v){

                String msg = "You checked:";


                if (ch1.isChecked()) {

                    msg = msg + "Iphone";

                }

                if (ch2.isChecked()) {

                    msg = msg + "Android";

                }

                if (ch3.isChecked()) {

                    msg = msg + "Windows";

                }



                Toast.makeText(getApplicationContext(), msg, Toast.LENGTH_LONG).show();

            }

        });

    }


}


Practical list 4
```

q-2

===============

XML FILE

activity_progressbar_activity.xml

===============

```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=".progressbar_activity">

    <ProgressBar
        android:id="@+id/progressbar"
        style="?android:attr/progressBarStyleHorizontal"
        android:layout_width="0dp"
        android:layout_height="wrap_content"
        android:max="100"
        android:progress="1"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.0"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.269" />
```

```xml
    <TextView

        android:id="@+id/txtview"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintHorizontal_bias="0.045"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent"

        app:layout_constraintVertical_bias="0.396" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

==================

JAVA FILE

progressbar_activity.java

==================

```java
package com.example.image_selector;


import androidx.appcompat.app.AppCompatActivity;


import android.os.Bundle;
import android.os.Handler;
import android.widget.ProgressBar;
import android.widget.TextView;


public class progressbar_activity extends AppCompatActivity {
    ProgressBar progress;
```

```java
TextView txtview;

int status=0;

private Handler handler=new Handler();


@Override

protected void onCreate(Bundle savedInstanceState) {

    super.onCreate(savedInstanceState);

    setContentView(R.layout.activity_progressbar_activity);

    Initialization();


}


private void Initialization()

{

    progress = findViewById(R.id.progressbar);

    txtview = findViewById(R.id.txtview);


    new Thread(new Runnable() {

        @Override

        public void run() {

            while(status<100)

            {

                status+=1;

                handler.post(new Runnable() {

                    @Override

                    public void run() {

                        progress.setProgress(status);

                        txtview.setText(status+"/" + progress.getMax());

                    }
```

```java
        });
        try {
            Thread.sleep(200);
        } catch (InterruptedException e) {
            e.printStackTrace();
        }
    }
}
}).start();
    }
}
```

Output

progressbar

23/100

==============

XML FILE

activity_main.xml

==============

```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">


  <Button

    android:id="@+id/next"

    android:layout_width="wrap_content"

    android:layout_height="wrap_content"

    android:text="Next"

    app:layout_constraintBottom_toBottomOf="parent"

    app:layout_constraintEnd_toEndOf="parent"

    app:layout_constraintHorizontal_bias="0.767"

    app:layout_constraintStart_toStartOf="parent"

    app:layout_constraintTop_toTopOf="parent"

    app:layout_constraintVertical_bias="0.713" />


  <ImageSwitcher
```

```xml
        android:id="@+id/imgbrand"

        android:layout_width="match_parent"

        android:layout_height="wrap_content"

        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintHorizontal_bias="0.0"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent"

        app:layout_constraintVertical_bias="0.207" />


    <Button

        android:id="@+id/previous"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:text="Previous"

        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintHorizontal_bias="0.141"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent"

        app:layout_constraintVertical_bias="0.713" />



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

========================

Java file

MainActivity.java

========================

package com.example.image_selector;

```java
import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.view.animation.Animation;

import android.view.animation.AnimationUtils;

import android.widget.Button;

import android.widget.ImageSwitcher;

import android.widget.ImageView;

import android.widget.ViewSwitcher;

public class MainActivity extends AppCompatActivity {

    ImageSwitcher imgbrand;

    Button btnprevious,btnnext;

    private int[] brand={R.drawable.b1,R.drawable.b2,R.drawable.b3,R.drawable.b4,R.drawable.b5};

    int position=0;


    @Override
    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

        controlinitialization();

        Btnclick();


    }


    private void controlinitialization()
```

```java
{
    imgbrand = findViewById(R.id.imgbrand);

    btnprevious = findViewById(R.id.previous);

    btnnext=findViewById(R.id.next);


    imgbrand.setFactory(new ViewSwitcher.ViewFactory() {

        @Override
        public View makeView() {

            ImageView imgmyview=new ImageView(getApplicationContext());


            imgmyview.setImageResource(brand[position]);

            return imgmyview;

        }

    });


}
private void Btnclick()
{

    btnnext.setOnClickListener(new View.OnClickListener() {

        @Override
        public void onClick(View v) {

            if(position < brand.length-1)

                position++;

            else

                position=0;

            imgbrand.setImageResource(brand[position]);

        }

    });
```

```java
btnprevious.setOnClickListener(new View.OnClickListener() {

    @Override

    public void onClick(View v) {

        if(position>0)

            position--;

        else if(position == brand.length)

            position=0;

        imgbrand.setImageResource(brand[position]);

    }

});

Animation obj = AnimationUtils.loadAnimation(getApplicationContext(), android.R.anim.fade_in);

imgbrand.setInAnimation(obj);

    }

}
```

Image_selector

PREVIOUS   **NEXT**

Image_selector

PREVIOUS　　**NEXT**

Image_selector

PREVIOUS   **NEXT**

Activity_main.xml

```java
package com.example.datetime;


import androidx.appcompat.app.AppCompatActivity;



import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;


public class MainActivity extends AppCompatActivity {

    Button btndate,btnTime,btndefault,btncustom;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        btndate=findViewById(R.id.btndate);
        btnTime=findViewById(R.id.btntime);
        btndefault=findViewById(R.id.btndefault);
        btncustom=findViewById(R.id.btncustom);
        Buttonclick();
    }
```

```java
private void Buttonclick()
{
    btndate.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            Intent obj=new Intent(getApplicationContext(),datepickerActivity.class);
            startActivity(obj);
        }
    });
    btnTime.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            Intent obj=new Intent(getApplicationContext(),TimepickerActivity.class);
            startActivity(obj);
        }
    });
    btndefault.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            Intent obj=new Intent(getApplicationContext(),DefaultActivity.class);
            startActivity(obj);
        }
    });
    btncustom.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            Intent obj=new Intent(getApplicationContext(),customActivity.class);
            startActivity(obj);
```

```
        }
    });
  }
}
```

```java
package com.example.datetime;


import androidx.appcompat.app.AppCompatActivity;



import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;


public class MainActivity extends AppCompatActivity {

    Button btndate,btnTime,btndefault,btncustom;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        btndate=findViewById(R.id.btndate);
        btnTime=findViewById(R.id.btntime);
        btndefault=findViewById(R.id.btndefault);
        btncustom=findViewById(R.id.btncustom);
        Buttonclick();
```

```java
}

private void Buttonclick()
{
    btndate.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            Intent obj=new Intent(getApplicationContext(),datepickerActivity.class);
            startActivity(obj);
        }
    });
    btnTime.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            Intent obj=new Intent(getApplicationContext(),TimepickerActivity.class);
            startActivity(obj);
        }
    });
    btndefault.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            Intent obj=new Intent(getApplicationContext(),DefaultActivity.class);
            startActivity(obj);
        }
    });
    btncustom.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            Intent obj=new Intent(getApplicationContext(),customActivity.class);
```

```
            startActivity(obj);

        }

    });

  }

}
```

output

DateTime

DATEPICKER

TIMEPICKER

DEFAULT DIALOGE

CUSTOM DIALOG

Date Picker xml file

Activity_datepicker.xml

```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=".datepickerActivity">


    <TextView

        android:id="@+id/txtDate"

        android:layout_width="366dp"

        android:layout_height="48dp"

        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintHorizontal_bias="0.488"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent"
```

```xml
        app:layout_constraintVertical_bias="0.076" />


    <Button

        android:id="@+id/button"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:text="change Date"

        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintHorizontal_bias="0.424"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent"

        app:layout_constraintVertical_bias="0.193" />


    <DatePicker

        android:id="@+id/datepicker"

        android:layout_width="356dp"

        android:layout_height="450dp"

        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintHorizontal_bias="0.581"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent"

        app:layout_constraintVertical_bias="1.0" />



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

```java
package com.example.datetime;


import androidx.annotation.RequiresApi;

import androidx.appcompat.app.AppCompatActivity;


import android.app.DatePickerDialog;

import android.icu.util.Calendar;

import android.os.Build;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.DatePicker;

import android.widget.TextView;


public class datepickerActivity extends AppCompatActivity {

    TextView txtdate;

    Button change;

    DatePicker datePicker;

    int mYear,mMonth,mDay;

  @Override

  protected void onCreate(Bundle savedInstanceState) {

    super.onCreate(savedInstanceState);

    setContentView(R.layout.activity_datepicker);

    txtdate=findViewById(R.id.txtDate);

    change=findViewById(R.id.button);

    datePicker=findViewById(R.id.datepicker);

    controlInitiazliazation();
```

```java
        ButtonClicks();

}


private void controlInitiazliazation()

{


    txtdate.setText("Current date is :" + getCurrentDate());


}


public String getCurrentDate()

{

    StringBuilder builder=new StringBuilder();

    builder.append(datePicker.getDayOfMonth()+"/");

    builder.append((datePicker.getMonth()+ 1) +"/");

    builder.append(datePicker.getYear());

    return builder.toString();


}

private void ButtonClicks()

{

    change.setOnClickListener(new View.OnClickListener() {

        @RequiresApi(api = Build.VERSION_CODES.N)

        @Override

        public void onClick(View v) {

            //txtdate.setText("Change date is :" + getCurrentDate());

            Calendar c=Calendar.getInstance();

            mYear=c.get(Calendar.YEAR);

            mMonth=c.get(Calendar.MONTH);
```

```
        mDay=c.get(Calendar.DAY_OF_MONTH);


        DatePickerDialog dialog=new DatePickerDialog(datepickerActivity.this, new
DatePickerDialog.OnDateSetListener() {

            @Override

            public void onDateSet(DatePicker view, int year, int month, int day) {

                txtdate.setText("selected Date is :" +day+ "/" +(month+1) +"/" + year);

            }


        },mYear,mMonth,mDay);

        dialog.show();

    }

  });

  }

}
```

---

output

DateTime

Current date is :5/4/2021

CHANGE DATE

2021
Mon, Apr 5

‹ **April 2021** ›

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

DateTime

selected Date is :8/4/2021

CHANGE DATE

2021
Thu, Apr 8

<   April 2021   >

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

Time picker

Xml file

Activity_timpicker.xml

```
package com.example.datetime;

import androidx.annotation.RequiresApi;
import androidx.appcompat.app.AppCompatActivity;

import android.app.DatePickerDialog;
import android.icu.util.Calendar;
import android.os.Build;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.DatePicker;
import android.widget.TextView;

public class datepickerActivity extends AppCompatActivity {
    TextView txtdate;
    Button change;
    DatePicker datePicker;
    int mYear,mMonth,mDay;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_datepicker);
    txtdate=findViewById(R.id.txtDate);
    change=findViewById(R.id.button);
```

```java
        datePicker=findViewById(R.id.datepicker);

        controlInitiazliazation();

        ButtonClicks();

    }


    private void controlInitiazliazation()

    {


        txtdate.setText("Current date is :" + getCurrentDate());


    }


    public String getCurrentDate()

    {

        StringBuilder builder=new StringBuilder();

        builder.append(datePicker.getDayOfMonth()+"/");

        builder.append((datePicker.getMonth()+ 1) +"/");

        builder.append(datePicker.getYear());

        return builder.toString();


    }

    private void ButtonClicks()

    {

        change.setOnClickListener(new View.OnClickListener() {

            @RequiresApi(api = Build.VERSION_CODES.N)

            @Override

            public void onClick(View v) {

                //txtdate.setText("Change date is :" + getCurrentDate());

                Calendar c=Calendar.getInstance();
```

```java
        mYear=c.get(Calendar.YEAR);

        mMonth=c.get(Calendar.MONTH);

        mDay=c.get(Calendar.DAY_OF_MONTH);


        DatePickerDialog dialog=new DatePickerDialog(datepickerActivity.this, new
DatePickerDialog.OnDateSetListener() {

            @Override

            public void onDateSet(DatePicker view, int year, int month, int day) {

                txtdate.setText("selected Date is :" +day+ "/" +(month+1) +"/" + year);

            }


        },mYear,mMonth,mDay);

        dialog.show();

      }

    });

  }

}
```

TimepickerActivity.java

```java
package com.example.datetime;


import androidx.annotation.RequiresApi;

import androidx.appcompat.app.AppCompatActivity;


import android.app.DatePickerDialog;

import android.app.TimePickerDialog;

import android.icu.util.Calendar;

import android.os.Build;

import android.os.Bundle;
```

```java
import android.view.View;

import android.widget.Button;

import android.widget.DatePicker;

import android.widget.TextView;

import android.widget.TimePicker;


public class TimepickerActivity extends AppCompatActivity {

    TextView txtTime;

    Button change;

    TimePicker timePicker;

    int mHour,mMinutes;

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_timepicker);


        txtTime=findViewById(R.id.txtTime);

        change=findViewById(R.id.button);

        timePicker=findViewById(R.id.timepicker);

        controlInitiazliazation();

        ButtonClicks();


    }


    private void controlInitiazliazation()

    {


        txtTime.setText("Current Time is :" + getCurrentTime());
```

```java
    }


    public String getCurrentTime()

    {

        StringBuilder builder=new StringBuilder();

        builder.append(timePicker.getCurrentHour()+":");

        builder.append(timePicker.getCurrentMinute());

        return builder.toString();

    }


    private void ButtonClicks()

    {

        change.setOnClickListener(new View.OnClickListener() {

            @RequiresApi(api = Build.VERSION_CODES.N)

            @Override

            public void onClick(View v) {

                //txtTime.setText("change time is :" + getCurrentTime());

                Calendar c=Calendar.getInstance();

                mHour=c.get(Calendar.HOUR);

                mMinutes=c.get(Calendar.MINUTE);



                TimePickerDialog dialog=new TimePickerDialog(TimepickerActivity.this, new
TimePickerDialog.OnTimeSetListener() {

                    @Override

                    public void onTimeSet(TimePicker view, int hour, int minute) {

                        String am_pm = (hour<12)? "AM" : "PM";

                        txtTime.setText("selected Date is :" +hour+ ":" + minute + " "+am_pm);
```

```
                }
        },mHour,mMinutes,false);

        dialog.show();

    }
  });
 }
}
```
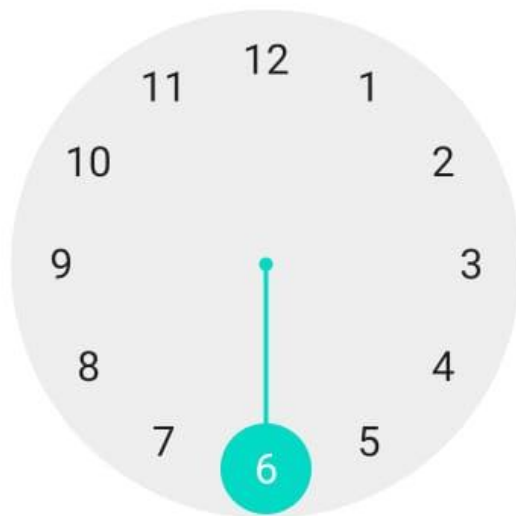
Output

DateTime

selected Date is :6:9 AM

CHANGE TIME

6:08 AM PM

```xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    xmlns:android="http://schemas.android.com/apk/res/android">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="57dp"
        android:layout_gravity="center"
        android:text="Success"
        android:textAlignment="center"
        android:textAppearance="@style/TextAppearance.AppCompat.Headline" />

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="43dp"
        android:layout_gravity="center"
        android:text="This is my Custome dialog demo"
        android:textAlignment="center"
        android:textAppearance="@style/TextAppearance.AppCompat.Medium" />

    <Button
        android:layout_width="210dp"
        android:text="Done"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
```

```
        android:layout_marginTop="15dp"

        android:textAlignment="center" />

</LinearLayout>
```

Custom_activity.java

```java
package com.example.image_view;


import androidx.appcompat.app.AlertDialog;

import androidx.appcompat.app.AppCompatActivity;


import android.content.DialogInterface;

import android.os.Bundle;

import android.text.AlteredCharSequence;

import android.view.LayoutInflater;

import android.view.View;

import android.view.ViewGroup;

import android.widget.Button;


public class Dailog_demo extends AppCompatActivity {


    Button btnDialog;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_dailog_demo);
        btnDialog=findViewById(R.id.btnDialog);
        btnClick();
    }
```

```java
private void btnClick()
{

    btnDialog.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {


        //Default dialog box
        /*AlertDialog.Builder builder=new AlertDialog.Builder(Dailog_demo.this);
        builder.setMessage("Do you want to close the Application").setCancelable(false)
            .setPositiveButton("Yes", new DialogInterface.OnClickListener() {

              @Override
              public void onClick(DialogInterface dialog, int which) {

                finish();

              }

            })
            .setNegativeButton("No", new DialogInterface.OnClickListener() {

              @Override
              public void onClick(DialogInterface dialog, int which) {

                dialog.cancel();

              }

            });

        AlertDialog dialog=builder.create();
        dialog.setTitle("Alter Dialog Example");
        dialog.show();*/


        //Custom Dilog box
        AlertDialog.Builder builder=new AlertDialog.Builder(Dailog_demo.this);
```

```java
        ViewGroup viewGroup=findViewById(android.R.id.content);

        View dailogView=
LayoutInflater.from(v.getContext()).inflate(R.layout.custome_lyout,viewGroup,false);

        builder.setView(dailogView);


        AlertDialog dialog=builder.create();

        dialog.show();


    }
  });


  }
}
```

Image switcher

==============

XML FILE

activity_main.xml

==============

```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">
```

```xml
<Button
    android:id="@+id/next"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Next"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.767"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.713" />

<ImageSwitcher
    android:id="@+id/imgbrand"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.0"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.207" />

<Button
    android:id="@+id/previous"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Previous"
```

```
        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintHorizontal_bias="0.141"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent"

        app:layout_constraintVertical_bias="0.713" />
```

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

========================

Java file

MainActivity.java

========================

```java
package com.example.image_selector;


import androidx.appcompat.app.AppCompatActivity;


import android.os.Bundle;

import android.view.View;

import android.view.animation.Animation;

import android.view.animation.AnimationUtils;

import android.widget.Button;

import android.widget.ImageSwitcher;

import android.widget.ImageView;

import android.widget.ViewSwitcher;


public class MainActivity extends AppCompatActivity {

    ImageSwitcher imgbrand;

    Button btnprevious,btnnext;
```

```java
private int[] brand={R.drawable.b1,R.drawable.b2,R.drawable.b3,R.drawable.b4,R.drawable.b5};

int position=0;


@Override
protected void onCreate(Bundle savedInstanceState) {

    super.onCreate(savedInstanceState);

    setContentView(R.layout.activity_main);

    controlinitialization();

    Btnclick();


}


private void controlinitialization()

{

    imgbrand = findViewById(R.id.imgbrand);

    btnprevious = findViewById(R.id.previous);

    btnnext=findViewById(R.id.next);


    imgbrand.setFactory(new ViewSwitcher.ViewFactory() {

        @Override
        public View makeView() {

            ImageView imgmyview=new ImageView(getApplicationContext());


            imgmyview.setImageResource(brand[position]);

            return imgmyview;

        }

    });
```

```java
    }
    private void Btnclick()
    {
        btnnext.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                if(position < brand.length-1)
                    position++;
                else
                    position=0;
                imgbrand.setImageResource(brand[position]);
            }
        });


        btnprevious.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                if(position>0)
                    position--;
                else if(position == brand.length)
                    position=0;
                imgbrand.setImageResource(brand[position]);
            }
        });
        Animation obj = AnimationUtils.loadAnimation(getApplicationContext(), android.R.anim.fade_in);
        imgbrand.setInAnimation(obj);
    }
}
```

PRACTICAL LIST 5

```xml
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.welcome">

    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/Theme.Welcome">
        <activity android:name=".hello">

        </activity>
        <activity android:name=".MainActivity">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
    </application>

</manifest>
```

```java
package com.example.welcome;


import androidx.appcompat.app.AppCompatActivity;


import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;


public class MainActivity extends AppCompatActivity {

    Button click;

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

        click=findViewById(R.id.click);
        onclick();
    }

    public void onclick(){
        click.setOnClickListener(new View.OnClickListener() {
            @Override
```

```java
        public void onClick(View v) {

            Intent intent = new Intent(getApplicationContext(),hello.class);

            startActivity(intent);

        }

    });

}


}
```

```java
package com.example.welcome;


import androidx.appcompat.app.AppCompatActivity;


import android.os.Bundle;


public class hello extends AppCompatActivity {

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

```xml
<?xml version="1.0" encoding="utf-8"?>
```

```xml
<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">



    <Button

        android:id="@+id/click"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:text="Welcome"

        android:textSize="36sp"

        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent"

        app:layout_constraintVertical_bias="0.478" />


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

Activity2.xml

```xml
<?xml version="1.0" encoding="utf-8"?>

<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
```

```xml
    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=".hello">


    <TextView

        android:id="@+id/textView"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:text="Hello....Good Morining...."

        android:textSize="24sp"

        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintHorizontal_bias="0.108"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent"

        app:layout_constraintVertical_bias="0.061" />


    <TextView

        android:id="@+id/textView2"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:text="Welcome to BMIIT"

        android:textSize="24sp"

        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintHorizontal_bias="0.074"

        app:layout_constraintStart_toStartOf="parent"
```

```
        app:layout_constraintTop_toTopOf="parent"

        app:layout_constraintVertical_bias="0.124" />

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

Q-2

Menifist file

```xml
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.pr_5_q2">

    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/Theme.Pr_5q2">
        <activity android:name=".display"></activity>
        <activity android:name=".MainActivity">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />


                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
    </application>
```

</manifest>

Activity1.xml

```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">


    <EditText

        android:id="@+id/editview"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:ems="10"

        android:hint="Enter Name"

        android:inputType="textPersonName"

        android:textSize="24sp"

        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintHorizontal_bias="0.497"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent"

        app:layout_constraintVertical_bias="0.142" />
```

```xml
    <Button

        android:id="@+id/click"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:text="OK"

        android:textSize="24sp"

        tools:layout_editor_absoluteX="153dp"

        tools:layout_editor_absoluteY="240dp" />


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

Activity2.xml

```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=".display">


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

Activity1.JAVA

```java
package com.example.pr_5_q2;


import androidx.appcompat.app.AppCompatActivity;


import android.content.Intent;
```

```java
import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import android.widget.Toast;


public class MainActivity extends AppCompatActivity {

    Button click;

    EditText edittext;

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

        edittext=findViewById(R.id.editview);

        click=findViewById(R.id.click);

        onclick();

    }


    public void onclick()

    {

        click.setOnClickListener(new View.OnClickListener() {

            @Override

            public void onClick(View v) {

                String name=edittext.getText().toString();

                Intent obj=new Intent(getApplicationContext(),display.class);

                obj.putExtra("name",name);

                startActivity(obj);
```

```java
        }
    });
  }
}
```

Activity2.java

```java
package com.example.pr_5_q2;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.widget.Toast;

public class display extends AppCompatActivity {

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

    String name=getIntent().getStringExtra("name");
    Toast.makeText(getApplicationContext(),name,Toast.LENGTH_LONG).show();
  }
}
```

XML FILE

```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">


    <Button

        android:id="@+id/btninbuilt"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:text="click here "

        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent" />

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

JAVAfile

```java
package com.example.inbuilt_application;


import androidx.appcompat.app.AppCompatActivity;

import androidx.core.app.ActivityCompat;
```

```java
import android.Manifest;

import android.content.Intent;

import android.net.Uri;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;


public class MainActivity extends AppCompatActivity {

    Button b1;

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

    public void initialize()
    {
        b1 =findViewById(R.id.btninbuilt);
        //ActivityCompat.requestPermissions(this,new String[]{Manifest.permission.CALL_PHONE},0);
    }

    private void buttonclicks()
    {
     b1.setOnClickListener(new View.OnClickListener() {
         @Override
```

```java
public void onClick(View v) {
  /*Intent objIntent=new Intent(Intent.ACTION_VIEW);
  objIntent.putExtra("sms_body","good morning...This is in-built sms demo");
  objIntent.putExtra("address","9825569665");
  objIntent.setType("vnd.android-dir/mms-sms");
  objIntent.setData(Uri.parse("smsto:"));
  startActivity(objIntent);*/


    //TO call
    /*Intent objIntent = new Intent(Intent.ACTION_DIAL,Uri.parse("tel:9825569665"));
    //startActivity(objIntent);*/


  //open im-built browser
  /*Intent objIntent=new Intent(Intent.ACTION_VIEW,Uri.parse("http://www.google.com"));
  startActivity(objIntent);*/



  //open google map

  /* Intent objIntent=new Intent(Intent.ACTION_VIEW,Uri.parse("geo:21.1591425,72.6822102"));
  startActivity(objIntent);*/



  //call log
  /* Intent objIntent=new Intent(Intent.ACTION_VIEW,Uri.parse("content://call_log/calls"));
  startActivity(objIntent);*/


  //view contact
  /*Intent objIntent=new Intent(Intent.ACTION_VIEW,Uri.parse("content://contacts/people/10"));
```

```java
        startActivity(objIntent);*/


        //Email sending


        Intent objIntent=new Intent(Intent.ACTION_SENDTO);
       // objIntent.setType("message/rdc822");
        objIntent.setData((Uri.parse("mailto:")));
        objIntent.putExtra(Intent.EXTRA_EMAIL,new String[]{"18bmiit036@gmail.com"});
        objIntent.putExtra(Intent.EXTRA_SUBJECT,"Android Email In-built intent demo");
        objIntent.putExtra(Intent.EXTRA_TEXT,"Hello Everyone....!!");
        startActivity(objIntent);



    }
  });
  }
}
```

Menifist file

```xml
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
   package="com.example.inbuilt_application">


  <uses-permission android:name="android.permission.CALL_PHONE"/>


  <application
    android:allowBackup="true"
    android:icon="@mipmap/ic_launcher"
```

```xml
        android:label="@string/app_name"

        android:roundIcon="@mipmap/ic_launcher_round"

        android:supportsRtl="true"

        android:theme="@style/Theme.Inbuilt_application">

        <activity android:name=".MainActivity">

            <intent-filter>

                <action android:name="android.intent.action.MAIN" />


                <category android:name="android.intent.category.LAUNCHER" />

            </intent-filter>

        </activity>

    </application>


</manifest>
```

Papa
098251 48289

have a missed call from
+919825148289 The
last missed call was at
07:06 AM on 12-Nov-2020
Thankyou, Team Jio.

Jan 27, 8:25PM

Dear Customer, You
have 4 missed calls from
+919825148289 The
last missed call was at
08:17 PM on 27-Jan-2021
Thankyou, Team Jio.

Feb 19, 5:35PM

Dear Customer, You
have a missed call from
+919825148289 The
last missed call was at
05:35 PM on 19-Feb-2021
Thankyou, Team Jio.

good morning...This
is in-built sms demo

SMS

Papa 2
9825148289

9825148289

Papa
9825148289

Add to a contact

98251 48289

1	2 ABC	3 DEF
4 GHI	5 JKL	6 MNO
7 PQRS	8 TUV	9 WXYZ
* (P)	0 +	# (W)

11:33　90%

← Compose　📎　➤　⋮

From　18bmiit018@gmail.com　⌄

To　18bmiit018@gmail.com　⌄

Android Email In-built intent demo

Hello Everyone....!!

11:25 89%

Try gas stations, A...   R

ATMs   Petrol   Restaurants

Google   1 mi
                      2 km

Latest in the area...

Cake shops   Healthy eating   Best lunches

Explore   Go   Saved   Contrib...   Updates
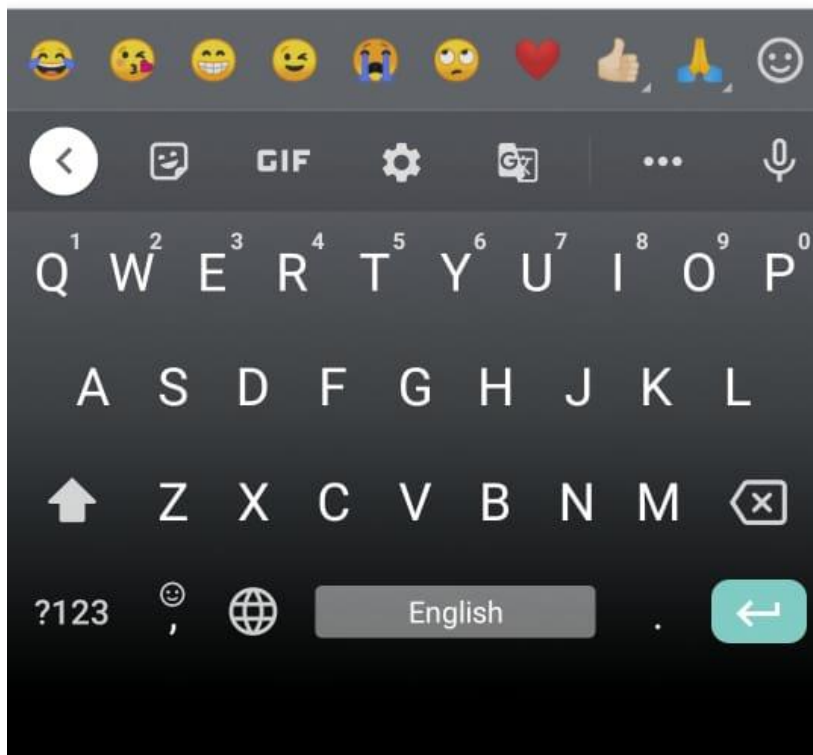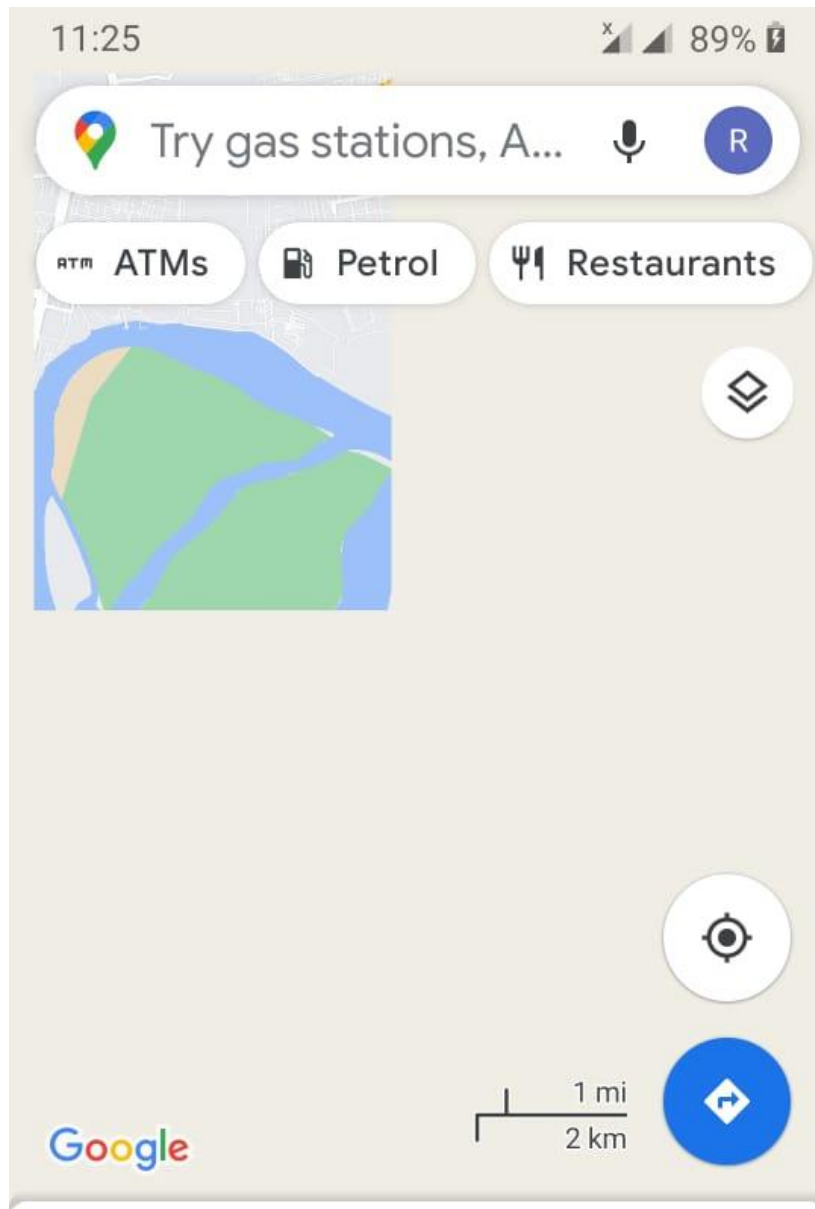
inbuilt_application

Aayush

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Mobile India

Duo video call

amazon

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products with fast local delivery.
Click here to go to amazon.in
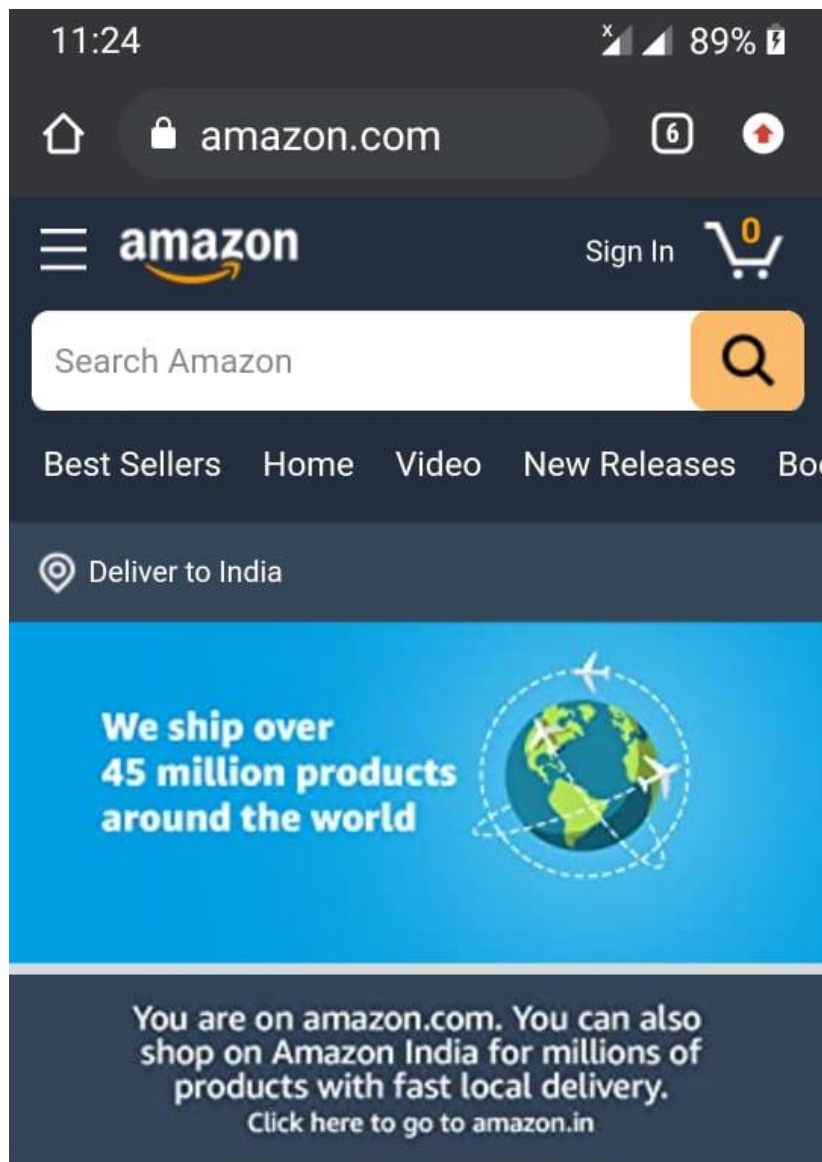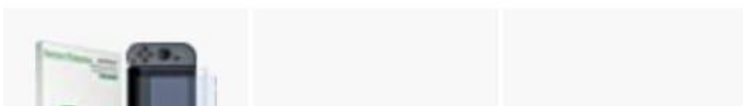
Sign in for the best experience

Sign in

Create an account

Video Game Accessories under $20

inbuilt_application

CLICK HERE

activity_main.xml file

```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">


    <ImageView

        android:id="@+id/imageView"

        android:layout_width="379dp"

        android:layout_height="303dp"

        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintEnd_toEndOf="parent"

        app:layout_constraintStart_toStartOf="parent"

        app:layout_constraintTop_toTopOf="parent" />


    <Button

        android:id="@+id/button"

        android:layout_width="wrap_content"

        android:layout_height="wrap_content"

        android:text="Button"

        app:layout_constraintBottom_toBottomOf="parent"

        app:layout_constraintStart_toStartOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

===================================

zoom.xml

=====================================

```xml
<?xml version="1.0" encoding="utf-8"?>
<set xmlns:android="http://schemas.android.com/apk/res/android">

    <scale xmlns:android="http://schemas.android.com/apk/res/android"
        android:fromXScale="0.5"
        android:toXScale="3.0"
        android:fromYScale="0.5"
        android:toYScale="3.0"
        android:duration="5000"
        android:pivotX="50%"
        android:pivotY="50%"/>


    <scale xmlns:android="http://schemas.android.com/apk/res/android"
        android:fromXScale="3.0"
        android:toXScale="0.5"
        android:fromYScale="3.0"
        android:toYScale="0.5"
        android:duration="5000"
        android:pivotX="50%"
        android:pivotY="50%"
        android:startOffset="5000"/>



</set>
```

==================================

rotate.xml

================================

```xml
<?xml version="1.0" encoding="utf-8"?>
```

```xml
<set xmlns:android="http://schemas.android.com/apk/res/android">

  <rotate xmlns:android="http://schemas.android.com/apk/res/android"

      android:fromDegrees="0"

      android:toDegrees="360"

      android:pivotX="50%"

      android:pivotY="50%"

      android:duration="5000"/>

  <rotate xmlns:android="http://schemas.android.com/apk/res/android"

      android:fromDegrees="360"

      android:toDegrees="0"

      android:pivotX="50%"

      android:pivotY="50%"

      android:duration="5000"

      android:startOffset="5000"/>


</set>
```

=====================================
fade.xml
=====================================
```xml
<?xml version="1.0" encoding="utf-8"?>
<set xmlns:android="http://schemas.android.com/apk/res/android">
<alpha xmlns:android="http://schemas.android.com/apk/res/android"
  android:fromAlpha="0"
  android:toAlpha="1"
  android:duration="2000"/>
```

```xml
    <alpha xmlns:android="http://schemas.android.com/apk/res/android"

       android:fromAlpha="1"

       android:toAlpha="0"

       android:duration="2000"

       android:startOffset="2000"/>

</set>
```

=============================

translate.xml

=============================

```xml
<?xml version="1.0" encoding="utf-8"?>

<set xmlns:android="http://schemas.android.com/apk/res/android">

    <translate xmlns:android="http://schemas.android.com/apk/res/android"

       android:fromXDelta="0%"

       android:toXDelta="75%"

       android:duration="800"/>


    <translate xmlns:android="http://schemas.android.com/apk/res/android"

       android:fromYDelta="75%"

       android:toYDelta="0%"

       android:duration="800"

       android:startOffset="800"/>


</set>
```

===================================

blink.xml

===================================

```xml
<?xml version="1.0" encoding="utf-8"?>
```

```xml
<set xmlns:android="http://schemas.android.com/apk/res/android">

    <alpha xmlns:android="http://schemas.android.com/apk/res/android"

    android:fromAlpha="0"

    android:toAlpha="1"

    android:duration="600"

    android:repeatMode="reverse"

    android:repeatCount="10"/>

</set>
```

=================================

frame_anim_list.xml

=================================

```xml
<?xml version="1.0" encoding="utf-8"?>
<animation-list xmlns:android="http://schemas.android.com/apk/res/android">

    android:onshot="false">

    <item android:drawable="@drawable/t1" android:duration="300"></item>

    <item android:drawable="@drawable/t2" android:duration="300"></item>

    <item android:drawable="@drawable/t3" android:duration="300"></item>

</animation-list>
```

Screenshots

Android_Animation

BUTTON

Android_Animation

BUTTON

Android_Animation

BUTTON

Android_Animation

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