ACTVITY LIFECYCLE

package com.example.activitylifecycle;  
import androidx.appcompat.app.AppCompatActivity;  
import android.os.Bundle;  
import android.widget.Toast;  
public class MainActivity extends AppCompatActivity {  
 @Override  
 protected void onStart() {  
 super.onStart();  
 Toast.*makeText*(this, "Activity started", Toast.*LENGTH\_LONG*).show();  
 }  
  
  
 @Override  
 protected void onPause() {  
 super.onPause();  
 Toast.*makeText*(this, "ACTIVITY PAUSED", Toast.*LENGTH\_SHORT*).show();  
 }  
  
  
 @Override  
 protected void onResume() {  
 super.onResume();  
 Toast.*makeText*(this, "ACTIVITY RESUMED", Toast.*LENGTH\_SHORT*).show();  
 }  
  
 @Override  
 protected void onStop() {  
 super.onStop();  
 Toast.*makeText*(this, "ACTIVITY STOPPED", Toast.*LENGTH\_SHORT*).show();  
 }  
  
 @Override  
 protected void onDestroy() {  
 super.onDestroy();  
 Toast.*makeText*(this, "ACTIVITY DESTROYED", Toast.*LENGTH\_SHORT*).show();  
 }  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 Toast.*makeText*(this, "ACTIVITY LIFECYCLE", Toast.*LENGTH\_SHORT*).show();  
 }  
}

IMAGEVIEW

*<?*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=".MainActivity"  
 android:orientation="vertical">  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Hello World!"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
 <ImageView  
 android:id="@+id/myimg"  
 android:layout\_width="332dp"  
 android:layout\_height="370dp"  
 android:layout\_gravity="top"  
 android:layout\_margin="30dp"  
 android:src="@drawable/img1" />  
 <Button  
 android:id="@+id/change"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="50dp"  
 android:layout\_gravity="center"  
 android:text="change"  
 />  
</LinearLayout>

JAVA

package com.example.imageview;  
  
import androidx.appcompat.app.AppCompatActivity;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.ImageView;  
public class MainActivity extends AppCompatActivity {  
 ImageView imageview;  
 Button change;  
 int flag=1;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 imageview=findViewById(R.id.*myimg*);  
 change=findViewById(R.id.*change*);  
 change.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 if(flag==1)  
 {  
 imageview.setImageResource(R.drawable.*img2*);  
 flag=2;  
 }  
 else  
 {  
 imageview.setImageResource(R.drawable.*img1*);  
 flag=1;  
 }  
 }  
 });  
 }  
}

ALERT

*<?*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"  
 android:foregroundTint="#855464"  
 android:orientation="vertical"  
 tools:context=".MainActivity">  
 <TextView  
 android:layout\_width="368dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_gravity="center"  
 android:layout\_margin="50dp"  
 android:background="#696969"  
 android:fontFamily="sans-serif-black"  
 android:text="Alert dialog demo"  
 android:textColor="@color/cardview\_dark\_background"  
 android:textColorHighlight="@color/black"  
 android:textSize="50dp"  
 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="match\_parent"  
 android:layout\_height="80dp"  
 android:text="Click to Alert "  
 android:textSize="20dp"  
 android:backgroundTint="@color/black"/>  
</LinearLayout>

package com.example.jugaad;  
  
import androidx.appcompat.app.AlertDialog;  
import androidx.appcompat.app.AppCompatActivity;  
import android.content.DialogInterface;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.Toast;  
public class MainActivity extends AppCompatActivity {  
 Button alertbtn;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 alertbtn=findViewById(R.id.*button*);  
 alertbtn.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 AlertDialog.Builder builder=new  
 AlertDialog.Builder(MainActivity.this);  
 builder.setIcon(R.drawable.*ic\_launcher\_background*);  
 builder.setTitle("Alert Title");  
 builder.setMessage("Close the window ,Yes/No");  
 builder.setPositiveButton("Yes", new  
 DialogInterface.OnClickListener() {  
 @Override  
 public void onClick(DialogInterface dialogInterface, int i)  
 {  
 Toast.*makeText*(MainActivity.this,"You have pressed Yes",Toast.*LENGTH\_SHORT*).show();  
 }  
 });  
 builder.setNegativeButton("No", new  
 DialogInterface.OnClickListener() {  
 @Override  
 public void onClick(DialogInterface dialogInterface, int i)  
 {  
 finish();  
 }  
 });  
 AlertDialog alertDialog=builder.create();  
 alertDialog.show();  
 }  
 });  
 }  
}

Simple App

*<?*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"  
 android:background="#E3DCEF"  
 tools:context=".MainActivity">  
 <TextView  
 android:id="@+id/heading"  
 android:layout\_width="330dp"  
 android:layout\_height="66dp"  
 android:capitalize="none"  
 android:gravity="center"  
 android:text="SIMPLE APP"  
 android:textAllCaps="true"  
 android:textColor="#6b5b95"  
 android:textSize="48sp"  
 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="0.064" />  
 <EditText  
 android:id="@+id/name"  
 android:layout\_width="294dp"  
 android:layout\_height="66dp"  
 android:ems="10"  
 android:hint="enter your name"  
 android:inputType="textPersonName"  
 android:textColorHint="#0B0A0A"  
 android:textSize="24sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.495"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/heading"  
 app:layout\_constraintVertical\_bias="0.123" />  
 <Button  
 android:id="@+id/click"  
 android:layout\_width="190dp"  
 android:layout\_height="71dp"  
 android:text="click"  
 android:textColor="#FDFDFD"  
 android:textSize="20sp"  
 app:backgroundTint="#673AB7"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.498"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/name"  
 app:layout\_constraintVertical\_bias="0.071" />  
 <TextView  
 android:id="@+id/head2"  
 android:layout\_width="359dp"  
 android:layout\_height="288dp"  
 android:gravity="center"  
 android:text="Changing Text"  
 android:textColor="#3F51B5"  
 android:textSize="34sp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.497"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/click"  
 app:layout\_constraintVertical\_bias="0.272" />  
</androidx.constraintlayout.widget.ConstraintLayout>

package com.example.myapplication;  
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;  
import android.widget.Toast;  
public class MainActivity extends AppCompatActivity {  
 EditText name1;  
 Button btn;  
 TextView str;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 name1 = findViewById(R.id.*name*);  
 btn = findViewById(R.id.*click*);  
 str = findViewById(R.id.*head2*);  
 btn.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 String myName=name1.getText().toString();  
 str.setText("My name is "+myName);  
 Toast.*makeText*(MainActivity.this, "My name is "+myName,  
 Toast.*LENGTH\_SHORT*).show();  
 }  
 });  
 }  
}