CSE 4002 MOBILE APP DEVELOPMENT M.SUMANA 19BCE7316 LAB ASSIGNMENT-6

1. Design a Floating action button demo. Initially only the pink button should display when the the pink buttonis click the rest of the three buttons should be displayed. When each button is clicked then taost message should be displayed. When the pink button is pressed again the three buttons should hide.

XML CODE:

```
<?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:backgroundTint="#CO11FF"
  android:backgroundTintMode="add"
  android:foregroundTint="#CO11FF"
  android:foregroundTintMode="add"
  tools:context=".MainActivity">
  <TextView
     android:id="@+id/textView"
     android:layout_width="wrap_content"
     android:layout_height="wrap_content"
     android:text="Floating action Buttons"
     app:layout_constraintBottom_toBottomOf="parent"
     app:layout_constraintEnd_toEndOf="parent"
     app:layout_constraintStart_toStartOf="parent"
```

```
app:layout_constraintTop_toTopOf="parent" />
<\!\!com.google.android.material.floating action button.Floating Action Button
   android:id="@+id/fab1"
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:layout_marginStart="32dp"
   android:layout_marginBottom="160dp"
   android:backgroundTint="@color/pink"
   android:clickable="true"
   app:layout_constraintBottom_toBottomOf="parent"
   app:layout_constraintStart_toEndOf="@+id/fab2"
   app:rippleColor="#CO11FF"
   app:srcCompat="@android:drawable/ic_dialog_dialer"/>
<com.google.android.material.floatingactionbutton.FloatingActionButton
   android:id="@+id/fab2"
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:layout_marginEnd="172dp"
   android:layout_marginBottom="160dp"
   android:backgroundTint="@color/blue"
   android:clickable="true"
  android:visibility="invisible"
   app:backgroundTint="#0090FF"
   app:layout_constraintBottom_toBottomOf="parent"
   app:layout_constraintEnd_toEndOf="parent"
   app:srcCompat="@android:drawable/ic_media_rew"/>
<com.google.android.material.floatingactionbutton.FloatingActionButton
  android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:layout_marginEnd="33dp"
  android:backgroundTint="@color/blue"
   android:clickable="true"
   android:visibility="invisible"
   app:layout_constraintEnd_toStartOf="@+id/fab4"
```

```
app:layout_constraintTop_toTopOf="@+id/fab4"
app:srcCompat="@android:drawable/ic_media_play" />

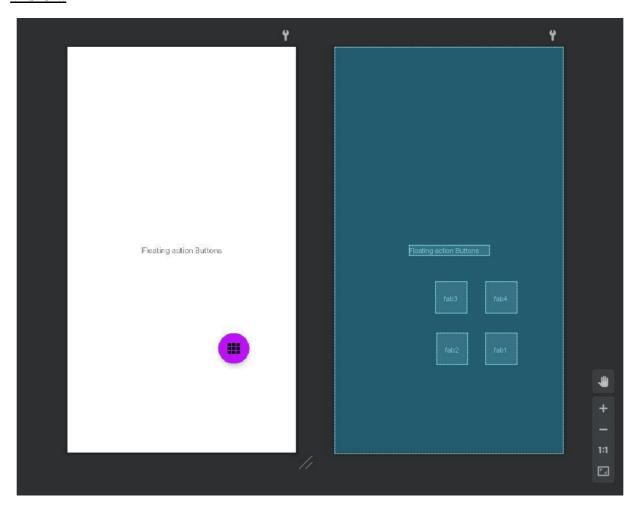
<com.google.android.material.floatingactionbutton.FloatingActionButton
android:id="@+id/fab4"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginBottom="37dp"

android:backgroundTint="@color/blue"

android:visibility="invisible"
app:layout_constraintBottom_toTopOf="@+id/fab1"
app:layout_constraintStart_toStartOf="@+id/fab1"
app:srcCompat="@android:drawable/ic_media_ff" />

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

DESIGN:



MainActivity Java CODE:

```
package com.example.lab5_fab;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.Toast;

import com.google.android.material.floatingactionbutton.FloatingActionButton;

public class MainActivity extends AppCompatActivity {

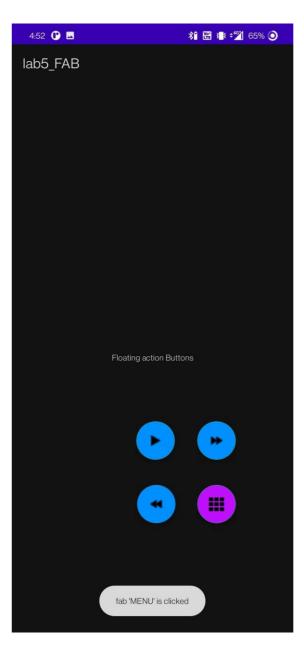
FloatingActionButton fa1,fa2,fa3,fa4;

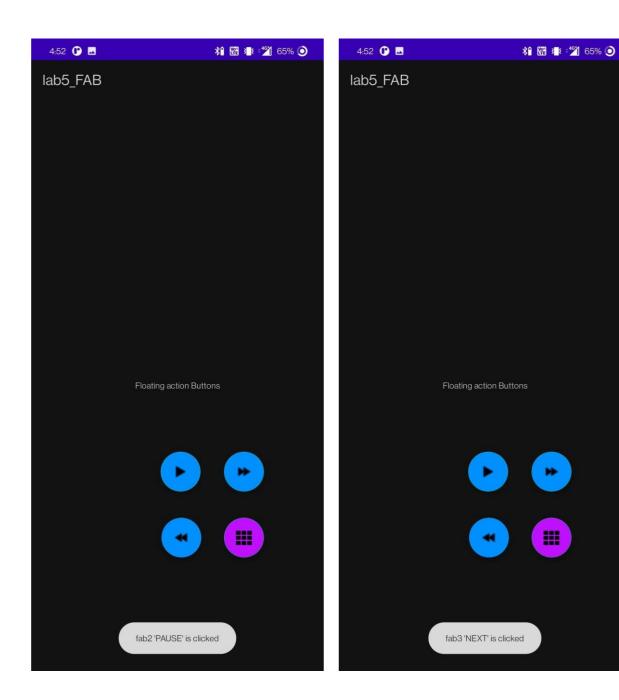
int flag;
```

```
@Override
  protected void onCreate(Bundle savedInstanceState) {
     super.onCreate(savedInstanceState);
     setContentView(R.layoutatyran)
     fa1=findViewById(R.idf
     fa2=findViewById(R.idf
     fa3=findViewById(R.idf
     fa4=findViewByld(R.idf);
        fa1.setOnClickListener(new View.OnClickListener() {
           @Override
           public void onClick(View view) {
              if(flag==0){
               ToastmakTk
                              getApplicationContext(),"fab 'MENU' is
clicked",Toast.EMO.show();
               fa2.setVisibility(View.)
               fa3.setVisibility(View.);
               fa4.setVisibility(View.);
              fa2.setOnClickListener(new View.OnClickListener() {
                 @Override
                 public void onClick(View view) {
                     Toastmante getApplicationContext(),"fab1 'PREV' is
clicked",ToastEROG.show();
              fa3.setOnClickListener(new View.OnClickListener() {
                 @Override
                 public void onClick(View view) {
                     ToastmakTk
                                     getApplicationContext(),"fab2 'PAUSE' is
clicked",ToastEMO,show();
              fa4.setOnClickListener(new View.OnClickListener() {
```

Output:







After Clicking MENU again, those three fab's go invisible again.



2. Design an App to scale one image big and one image small and vice versa. **(XML code)**

For 1st Image Animation:

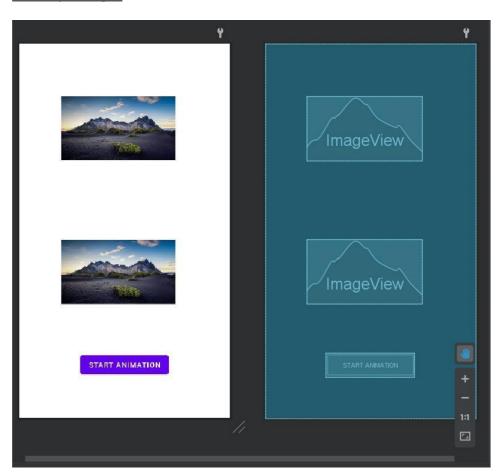
For 2nd Image Animation

Activity Code:

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</pre>
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"
    <ImageView</pre>
        android:id="@+id/ig1"
        android:layout width="225dp"
        android:layout height="125dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.435"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.169"
        app:srcCompat="@drawable/iceland" />
```

```
<ImageView</pre>
        android:id="@+id/ig2"
        android:layout_width="225dp"
        android:layout_height="125dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.435"
        app:layout_constraintStart_toStartOf="parent"
        app:layout constraintTop toTopOf="parent"
        app:layout_constraintVertical_bias="0.632"
        app:srcCompat="@drawable/iceland" />
    <Button
        android:id="@+id/bt1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginBottom="80dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.498"
        app:layout_constraintStart_toStartOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

Activity Design:



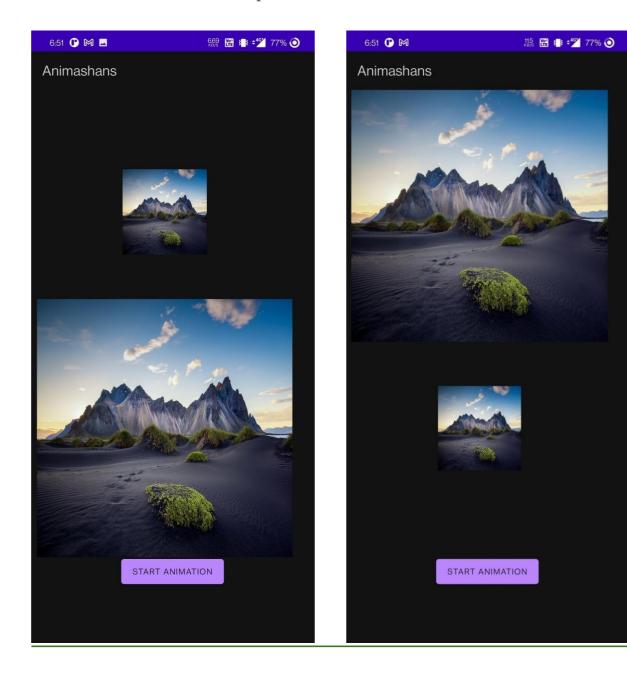
Java Code:

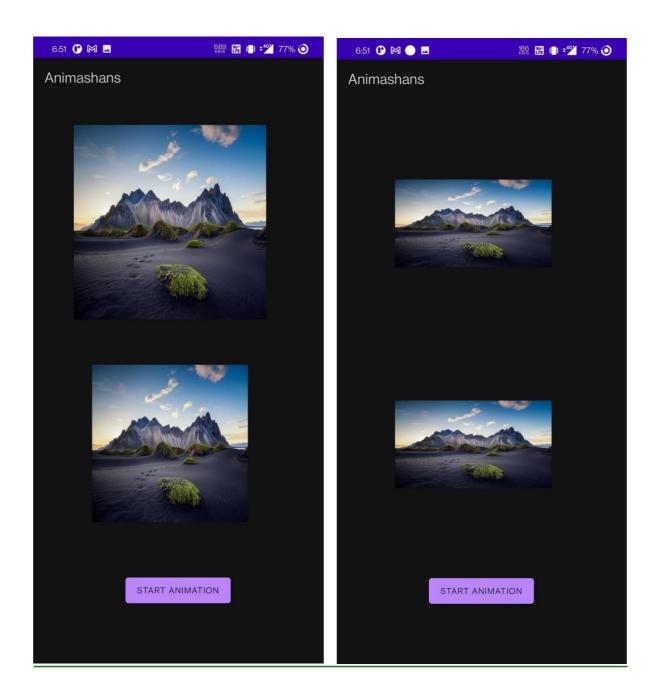
```
package com.example.animashans;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.view.animation.Animation;
import android.view.animation.AnimationUtils;
import android.widget.Button;
import android.widget.ImageView;
public class MainActivity extends AppCompatActivity {
    ImageView img,img1;
    Button b1;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        img=findViewById(R.id.ig1);
        img1=findViewById(R.id.ig2);
        b1=findViewById(R.id.bt1);
        b1.setOnClickListener(new View.OnClickListener() {
            public void onClick(View v) {
                Animation anime=
AnimationUtils.loadAnimation(MainActivity.this,R.anim.anime1);
                img.startAnimation(anime);
                Animation anime1=
AnimationUtils.loadAnimation(MainActivity.this,R.anim.anime2);
                img1.startAnimation(anime1);
```

Output:



After 'Start Animation' button is pressed:





Final (zoom out and zoom in vice versa):