Name : V Vikram Class : CSE 'C'

Subject: UCS1711---Mobile Application Development Lab

QUESTION:

Ex 4: Application Development using basic graphical primitives

CODE:

activity_main.xml:

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

<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:layout_width="wrap_content"
        android:layout_width="wrap_content"
        android:layout_alignParentStart="true"
        android:layout_alignParentEt="true"
        android:layout_alignParentTop="true"
        android:layout_centerHorizontal="true"
        android:layout_marginStart="161dp"
        android:layout_marginLeft="161dp"
        android:layout_marginTop="198dp"
        android:layout_marginTop="198dp"
        android:text="Fade" />

<Button
        android:layout_width="wrap_content"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_height="wrap_content"</pre>
```

```
android:text="Rotate" />
android:text="Down" />
android:text="Forward"
```

```
android:layout_alignParentLeft="true"
android:backgroundTint="@color/orange"
android:layout_marginLeft="210dp" />

<Button
    android:id="@+id/bt_backward"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_below="@+id/bt_forward"
    android:layout_alignParentStart="true"
    android:layout_alignParentLeft="true"
    android:layout_marginStart="74dp"
    android:layout_marginStart="74dp"
    android:layout_marginTop="-46dp"
    android:backgroundTint="@color/orange"
    android:text="Backward" />

<ImageView
    android:layout_width="match_parent"
    android:layout_height="200dp"
    android:layout_below="@+id/bt_backward"
    android:layout_benterInParent="true"
    android:layout_marginLeft="30dp"
    android:layout_marginLeft="30dp"
    android:layout_marginRight="30dp"
    android:layout_marginRight="30dp"
    android:layout_marginRight="30dp"
    android:background="@drawable/car" />

</
```

MainActivity.java:

```
package com.example.v2;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.view.animation.AnimationUtils;
import android.widget.Button;
import android.widget.ImageView;

public class MainActivity extends AppCompatActivity{
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
}
```

```
setContentView(R.layout.activity main);
       Button bt zoom=findViewById(R.id.bt zoom);
       Button bt fade=findViewById(R.id.bt fade);
       Button bt rotate=findViewById(R.id.bt rotate);
       Button bt down=findViewById(R.id.bt down);
       Button bt up=findViewById(R.id.bt up);
       Button bt forward=findViewById(R.id.bt forward);
       Button bt backward=findViewById(R.id.bt backward);
       final ImageView iv animate=findViewById(R.id.iv animate);
       bt zoom.setOnClickListener(new View.OnClickListener() {
           @Override
           public void onClick(View v) {
iv animate.startAnimation(AnimationUtils.loadAnimation(getApplicationContext
(), R.anim.zoom in));
       });
      bt fade.setOnClickListener(new View.OnClickListener() {
           @Override
           public void onClick(View v) {
iv animate.startAnimation(AnimationUtils.loadAnimation(getApplicationContext
(), R.anim. fade in));
       bt rotate.setOnClickListener(new View.OnClickListener() {
           @Override
           public void onClick(View v) {
iv animate.startAnimation(AnimationUtils.loadAnimation(getApplicationContext
(), R.anim.rotate in));
       });
       bt up.setOnClickListener(new View.OnClickListener() {
           @Override
           public void onClick(View v) {
               iv animate.animate().translationYBy(-300f).setDuration(600);
       });
       bt_down.setOnClickListener(new View.OnClickListener() {
           @Override
           public void onClick(View v) {
               iv_animate.animate().translationYBy(300f).setDuration(600);
       });
       bt forward.setOnClickListener(new View.OnClickListener() {
           @Override
           public void onClick(View v) {
               iv animate.animate().translationXBy(300f).setDuration(600);
       });
```

```
bt_backward.setOnClickListener(new View.OnClickListener() {
         @Override
         public void onClick(View v) {
             iv_animate.animate().translationXBy(-300f).setDuration(600);
        }
    });
}
```

colors.xml:

fade_in.xml:

zoom_in.xml:

rotate_in.xml:

Output:

