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Roll No.: 43212 **Batch**: Q-10

Divisions: BE 10

Assignment no : 5

Problem Statement: Design and Develop a GUI for FAN regulator that uses Android platform.

CODE:

MainActivity.java

```
package com.example.fan;
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.view.animation.RotateAnimation;
import android.widget.ImageView;
public class MainActivity extends AppCompatActivity {
   ImageView imageView ;
   @Override
   protected void onCreate(Bundle savedInstanceState) {
       super.onCreate(savedInstanceState);
       setContentView(R.layout.activity main);
       imageView = (ImageView) findViewById(R.id.fanImage);
   public void changeSpeed(View view) {
       Animation animation =
AnimationUtils.loadAnimation(getApplicationContext(), R.anim.rotate);
       System.out.println(view.getId());
       switch (view.getId()) {
           case (R.id.speed0):
               System.out.println(R.id.speed0);
               animation.setDuration(Integer.MAX VALUE);
               break;
           case (R.id. speed1):
               animation.setDuration(150);
               break;
           case (R.id.speed2):
               animation.setDuration(100);
```

```
break;
case (R.id.speed3):
    animation.setDuration(50);
    break;
}
animation.setRepeatCount(Animation.INFINITE);
imageView.setAnimation(animation);
imageView.startAnimation(animation);
}
```

Acivity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
  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</pre>
           android:layout width="300dp"
           android:layout height="300dp"
           android:id="@+id/fanImage"
           android:src="@drawable/fan1"
           android:layout marginLeft="50dp"
           android:layout marginRight="50dp"
           android:layout marginTop="150dp"
           android:layout marginBottom="150dp"
           />
       <LinearLayout</pre>
           android:layout width="match parent"
           android:layout height="match parent"
           android:orientation="horizontal">
           <Button
               android:id="@+id/speed0"
               android:layout width="50dp"
               android:layout height="wrap content"
               android:layout marginLeft="50dp"
               android:onClick="changeSpeed"
               android:text="0" />
           <Button
               android:id="@+id/speed1"
               android:layout width="50dp"
               android:layout height="wrap content"
               android:layout marginLeft="30dp"
               android:onClick="changeSpeed"
               android:text="1" />
```

```
<Button
               android:id="@+id/speed2"
               android:layout width="50dp"
               android:layout height="wrap content"
               android:layout marginLeft="30dp"
               android:onClick="changeSpeed"
               android:text="2" />
           <Button
               android:id="@+id/speed3"
               android:layout width="50dp"
               android:layout_height="wrap_content"
               android:layout_marginLeft="30dp"
               android:onClick="changeSpeed"
               android:text="3" />
       </LinearLayout>
</RelativeLayout>
```

Rotate.xml

OUTPUT:





