PART - A LAB - 04 WALLPAPER CHANGER APP

activity main.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"
  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:layout alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout marginEnd="31dp"
    android:layout_marginBottom="385dp"
    android:text="@string/wallpaper changer app"
    android:textAlignment="center"
    android:textColor="@color/black"
    android:textSize="33sp"
    android:textStyle="bold"
    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:layout_alignParentEnd="true"
    android:layout_alignParentBottom="true"
    android:layout marginEnd="46dp"
    android:layout_marginBottom="249dp"
    android:text="@string/click to change wallpaper"
    android:textSize="20sp"
    android:onClick="changeWallpaper"
    />
```

</RelativeLayout>

MainActivity.java

```
package com.wallpaperchangerapp;
import androidx.appcompat.app.AppCompatActivity;
import android.app.WallpaperManager;
import android.graphics.Bitmap;
import android.graphics.drawable.BitmapDrawable;
import android.graphics.drawable.Drawable;
import android.os.Bundle;
import android.view.View;
import java.io.IOException;
import java.util.Timer;
import java.util.TimerTask;
public class MainActivity extends AppCompatActivity {
       Timer myTime;
       Drawable drawable;
       WallpaperManager wpMan;
       int nextImg = 1;
       @Override
       protected void onCreate(Bundle savedInstanceState) {
              super.onCreate(savedInstanceState);
              setContentView(R.layout.activity_main);
              myTime = new Timer();
              wpMan = WallpaperManager.getInstance(this);
       }
       public void changeWallpaper(View view) {
              setWallpaper();
       }
       private void setWallpaper() {
              myTime.schedule(new TimerTask() {
                     @Override
                     public void run() {
                            if (nextImg == 1)
                                   drawable = getResources().getDrawable(R.drawable.img1);
                                   nextImg = 2;
                            } else if (nextImg == 2){
                                   drawable = getResources().getDrawable(R.drawable.img2);
                                   nextImg = 3;
                            } else if (nextImg == 3){
                                   drawable = getResources().getDrawable(R.drawable.img3);
                                   nextImg = 4;
                            } else if (nextImg == 4){
                                   drawable = getResources().getDrawable(R.drawable.img4);
```

```
nextImg = 5;
                            } else if (nextImg == 5){
                                    drawable = getResources().getDrawable(R.drawable.img5);
                                    nextImg = 6;
                            } else {
                                    drawable = getResources().getDrawable(R.drawable.img6);
                                    nextImq = 1;
                            Bitmap imgBmp = ((BitmapDrawable)drawable).getBitmap();
                            try {
                                    wpMan.setBitmap(imgBmp);
                            } catch (IOException e) {
                                    e.printStackTrace();
                            }
              }, 30000, 2000);
       }
}
```

AndroidManifest.xml

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"</p>
  xmlns:tools="http://schemas.android.com/tools"
  package="com.wallpaperchangerapp">
  <uses-permission android:name="android.permission.SET_WALLPAPER" />
  <application
    android:allowBackup="true"
    android:dataExtractionRules="@xml/data extraction rules"
    android:fullBackupContent="@xml/backup rules"
    android:icon="@mipmap/ic_launcher"
    android:label="@string/app_name"
    android:roundlcon="@mipmap/ic_launcher_round"
    android:supportsRtl="true"
    android:theme="@style/Theme.WallpaperChangerApp"
    tools:targetApi="31">
    <activity
      android:name=".MainActivity"
      android:exported="true">
      <intent-filter>
         <action android:name="android.intent.action.MAIN" />
         <category android:name="android.intent.category.LAUNCHER" />
      </intent-filter>
    </activity>
  </application>
</manifest>
```

Note:

• Paste wallpaper images in res → drawable folder (or) drawablev24 folder