Lab Program: 4 Wallpaper

Name: Tarush J. Reddy   USN: 1BY18CS177

XML Code:

```xml
<?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"
    tools:context=".MainActivity">

    <TextView
        android:id="@+id/text1"
        android:layout_width="219dp"
        android:layout_height="39dp"
        android:text="@string/wallpaper_changer"
        android:textSize="25sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.069" />

    <Button
        android:id="@+id/button"
        android:layout_width="266dp"
```

```xml
        android:layout_height="58dp"
        android:text="@string/click_to_change_wallpaper"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.222" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

Java Code:

```java
package com.example.picchange;

import androidx.appcompat.app.AppCompatActivity;
import androidx.core.content.res.ResourcesCompat;

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 android.widget.Button;

import java.io.IOException;
import java.util.Timer;
import java.util.TimerTask;

public class MainActivity extends AppCompatActivity {
```

```java
    Button wall;
    Timer tim;
    Drawable drawable;
    WallpaperManager wlp;
    int prev=1;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
        tim = new Timer();
        wlp = WallpaperManager.getInstance(this);
        wall = findViewById(R.id.button);
        wall.setOnClickListener(new
View.OnClickListener() {
            @Override public void onClick(View view) {
            setWallpaper();
        }
        });
    }
    private void setWallpaper() {
        tim.schedule(new TimerTask() {
            @Override
            public void run() {
                if(prev==1) {
                    drawable =
ResourcesCompat.getDrawable(getResources(),
R.drawable.one, null);
                    prev = 2;
                }
```

```java
                else if(prev==2) {
                    drawable =
ResourcesCompat.getDrawable(getResources(),
R.drawable.two, null);
                    prev=3;
                }
                else if(prev==3) {
                    drawable =
ResourcesCompat.getDrawable(getResources(),
R.drawable.three, null);
                    prev=4;
                }
                else if(prev==4) {
                    drawable =
ResourcesCompat.getDrawable(getResources(),
R.drawable.four, null);
                    prev=5;
                }
                else if(prev==5) {
                    drawable =
ResourcesCompat.getDrawable(getResources(),
R.drawable.five, null);
                    prev=1;
                }
            Bitmap wallpaper =
((BitmapDrawable)drawable).getBitmap();
            try {
                wlp.setBitmap(wallpaper);
            }
            catch (IOException e)
```

```
            {
                e.printStackTrace();
            }
        }
    },0,300); } }
```

PicChange

Wallpaper changer

CLICK TO CHANGE WALLPAPER