

Exp. No: 13	Mini project – Android Gradient
Date:	

Project Abstract:

- It is a simple android project where the gradient colour is changed in a period of time
- It is to show how an android app works and how simple it is to create an android app

APPLICATION INFORMATION:

- Version: “1.0”
- Created on: 08.05.2022
- Download size: 3.7 mb

Specific Requirements:

- Software interface: It requires at least android 6
- Hardware Interfaces: This application is built by java and it need at least some minimum hardware requirements of 1 GB of RAM and 1 GHz processor.

APPLICATION FEATURES:

- It can be used to relax your mind
- It can also be used as Screen Saver

DESCRIPTION:

- This application consists of a sentence “Spread Love Everywhere You go”
- Here the color of the background keeps changing with gradient colors

UPDATE PHONE SETTINGS:

- Go to your phone Settings page
- Tap Security or Applications (varies with device)
- Check the Unknown Sources box
- Confirm with OK

GO TO DOWNLOADS:

- Open Downloads on your device by going to My Files or Files
- Tap Install when prompted, the APK file you downloaded will be installed on your device.

USING EMULATOR:

- Download And Install one Emulator Software's
(Ex: Bluestacks, GenyMotion, NoxPlayer)

SOURCE CODE:

activity_main.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"
    android:id="@+id/layout"
    android:background="@drawable/gradient_list"
    tools:context=".MainActivity">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textSize="22sp"
        android:textStyle="bold"
        android:textColor="#219806"
        android:text="Spread love everywhere you go."
```

```
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintTop_toTopOf="parent" />
```

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

MainActivity.java:

```
package com.example.livewallpaper;
```

```
import androidx.appcompat.app.AppCompatActivity;
import androidx.constraintlayout.widget.ConstraintLayout;
import android.graphics.drawable.AnimationDrawable;
import android.os.Bundle;
```

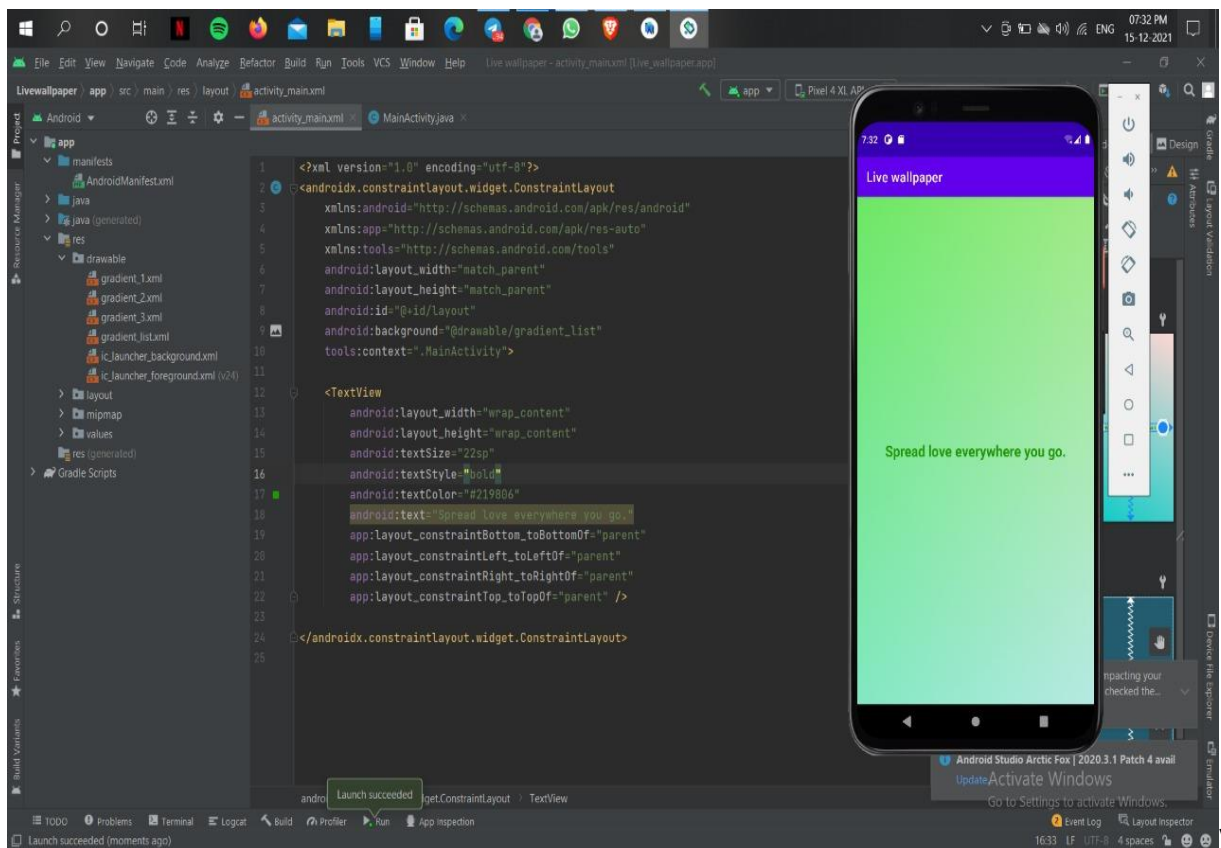
```
public class MainActivity extends AppCompatActivity {

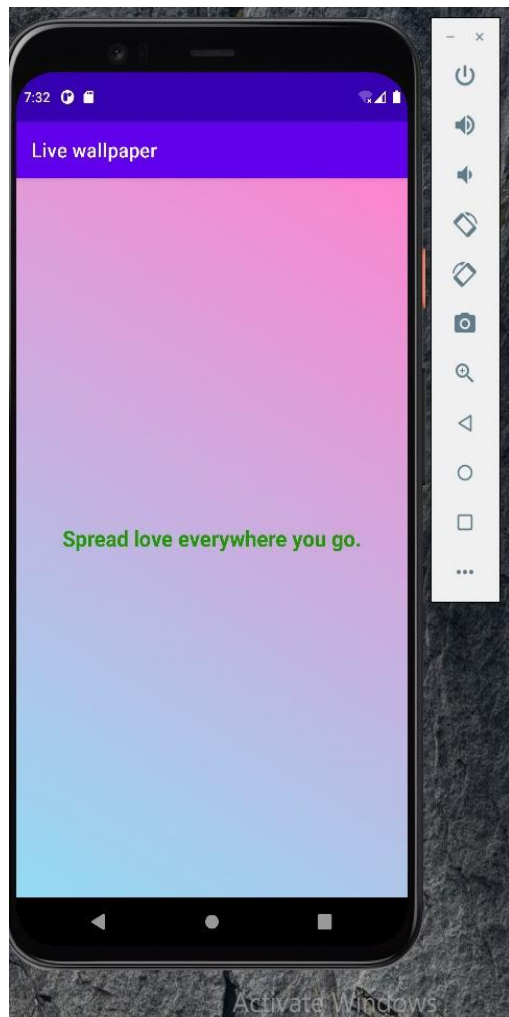
    @Override

    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
}
```

```
ConstraintLayout layout = findViewById(R.id.layout);  
    //With the help of AnimatedDrawable class, we can set  
    //the duration to our background and then call the  
    //function start at the end.  
    AnimationDrawable animationDrawable = (AnimationDrawable)  
        layout.getBackground();  
    animationDrawable.setEnterFadeDuration(1500);  
    animationDrawable.setExitFadeDuration(3000);  
    animationDrawable.start();  
}  
}
```

OUTPUT:





RESULT:

Thus, the implementation of the Android Gradient App has been implemented and the output has been verified successfully