1NT21IS400 – Dinesh Kumar M HAD LAB OBSERVATION PROGRAM 1

CODE: MainActivity.java

```
package com.example.a1nt21is400_hadpro1;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.widget.Toast;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;
public class MainActivity extends AppCompatActivity {
  private TextView textview;
  private Button button;
  private int clickCount = 0;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    textview = findViewById(R.id.textView2);
    button = findViewById(R.id.button);
    button.setOnClickListener(new View.OnClickListener(){
       @Override
       public void onClick(View v){
         clickCount++;
         String message = "Button Clicked "+clickCount+"times!";
         textview.setText(message);
    });
  @Override
  protected void onStart() {
    Toast toast = Toast.makeText(this, "Activity Started", Toast.LENGTH_LONG);
    toast.show();
    super.onStart();
  }
  @Override
  protected void onRestart() {
     Toast toast = Toast.makeText(this, "Activity Restarted", Toast.LENGTH_LONG);
    toast.show();
    super.onRestart();
  @Override
  protected void onPause() {
    Toast toast = Toast.makeText(this, "Activity Paused", Toast.LENGTH_LONG);
```

```
toast.show();
    super.onPause();
  @Override
  protected void onResume() {
    Toast toast = Toast.makeText(this, "Activity Resumed", Toast.LENGTH_LONG);
    toast.show();
    super.onResume();
  }
  @Override
  protected void onStop() {
    Toast toast = Toast.makeText(this, "Activity Stopped", Toast.LENGTH_LONG);
    toast.show();
    super.onStop();
  }
  @Override
  protected void onDestroy() {
    Toast toast = Toast.makeText(this, "Activity Destroyed", Toast.LENGTH LONG);
    toast.show();
    super.onDestroy();
  }
}
```

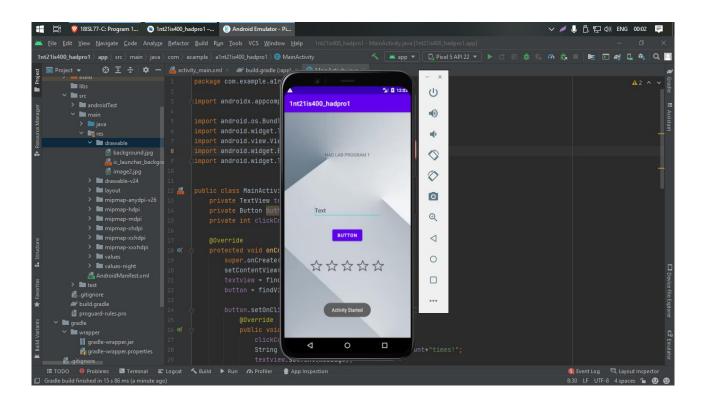
Activity_main.xml

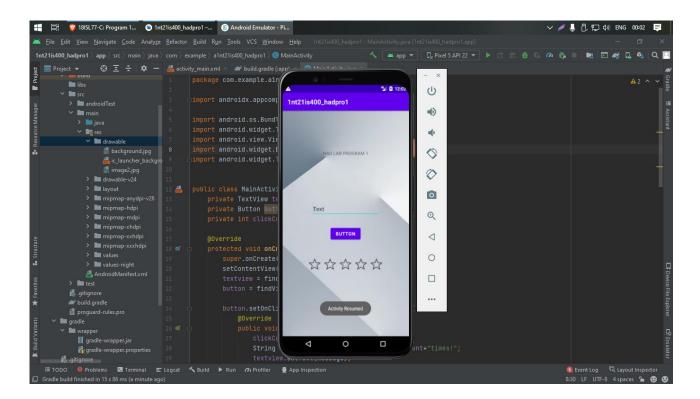
```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</p>
xmlns:android="http://schemas.android.com/apk/res/android"
  xmlns:app="http://schemas.android.com/apk/res-auto"
  xmlns:tools="http://schemas.android.com/tools"
  android:layout_width="match_parent"
  android:layout_height="match_parent"
  tools:context=".MainActivity">
  <ImageView
    android:id="@+id/imageView2"
    android:layout width="608dp"
    android:layout height="970dp"
    android:scaleType="fitXY"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:srcCompat="@drawable/image2"/>
  <TextView
    android:id="@+id/textView"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="122dp"
    android:text="HAD LAB PROGRAM 1"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"/>
```

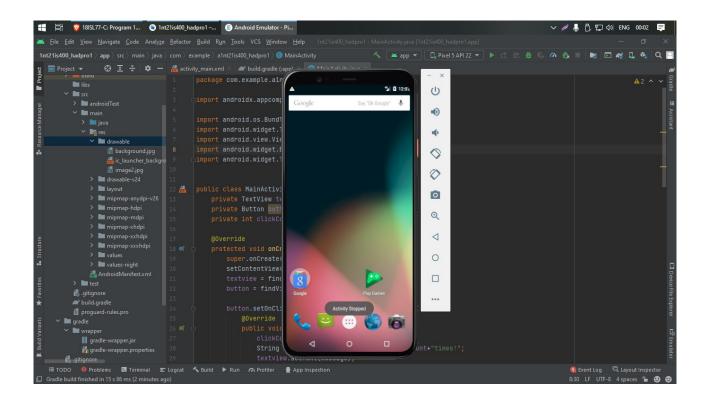
```
<Button
  android:id="@+id/button"
  android:layout_width="wrap_content"
  android:layout_height="wrap_content"
  android:layout_marginBottom="294dp"
  android:text="Button"
  app:layout_constraintBottom_toBottomOf="parent"
  app:layout_constraintEnd_toEndOf="parent"
  app:layout_constraintStart_toStartOf="parent"/>
<EditText
  android:id="@+id/textView2"
  android:layout_width="wrap_content"
  android:layout_height="wrap_content"
  android:layout_marginBottom="30dp"
  android:ems="10"
  android:inputType="textPersonName"
  android:text="Text"
  app:layout constraintBottom toTopOf="@+id/button"
  app:layout_constraintEnd_toEndOf="parent"
  app:layout_constraintStart_toStartOf="parent"/>
<RatingBar
  android:id="@+id/ratingBar"
  android:layout_width="wrap_content"
  android:layout_height="wrap_content"
  android:layout marginTop="46dp"
  app:layout_constraintEnd_toEndOf="parent"
  app:layout_constraintStart_toStartOf="parent"
  app:layout_constraintTop_toBottomOf="@+id/button"
  tools:ignore="SpeakableTextPresentCheck"/>
```

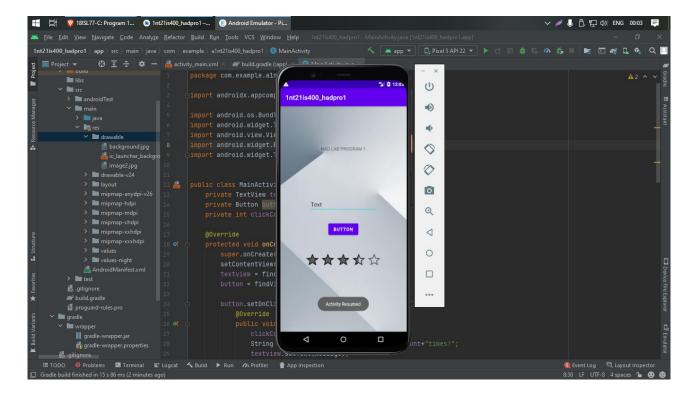
</androidx.constraintlayout.widget.ConstraintLayout>

OUTPUT: ACTIVITY LIFECYCLE



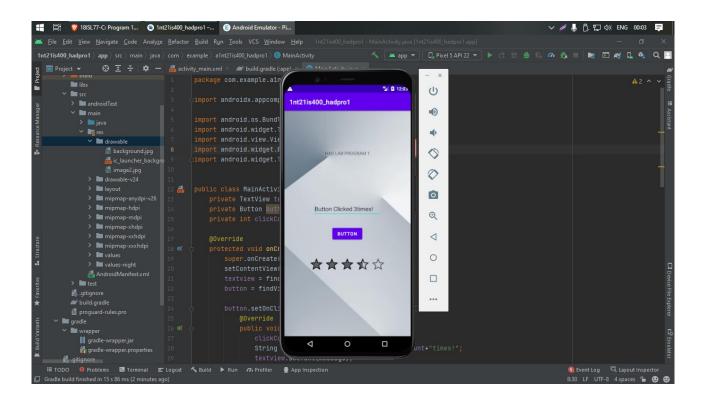






UI COMPONENTS

- TextView EditText
- ImageView
- Button
- Rating bar



Android Studio Editor

