

## **PRACTICAL-4.2**

### **AIM:**

**Create a simple application showing the use of RATING BAR.**

### **PROGRAM 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"
    tools:context=".MainActivity">

    <TextView
        android:id="@+id/textView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/parth_patel_19dcs098"
        android:textColor="#F44336"
        android:textSize="20sp"
        app:layout_constraintBottom_toTopOf="@+id/ratingBar"
        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:backgroundTint="#4CAF50"
    android:text="@string/submit"
    android:textColor="#263238"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintLeft_toLeftOf="parent"
    app:layout_constraintRight_toRightOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.615" />
```

```
<RatingBar
```

```
    android:id="@+id/ratingBar"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="236dp"
    app:layout_constraintBottom_toTopOf="@+id/button"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.497"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.0"
    tools:ignore="SpeakableTextPresentCheck" />
```

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

- **Strings.xml:**

```
<resources>
    <string name="app_name">RatingBar</string>
    <string name="submit">SUBMIT</string>
    <string name="parth_patel_19dcs098">PARTH PATEL-19DCS098</string>
</resources>
```

- **MainActivity.java:**

```
package com.parthnpatel.ratingbar;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.RatingBar;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

    private RatingBar ratingBar;
    private Button button;

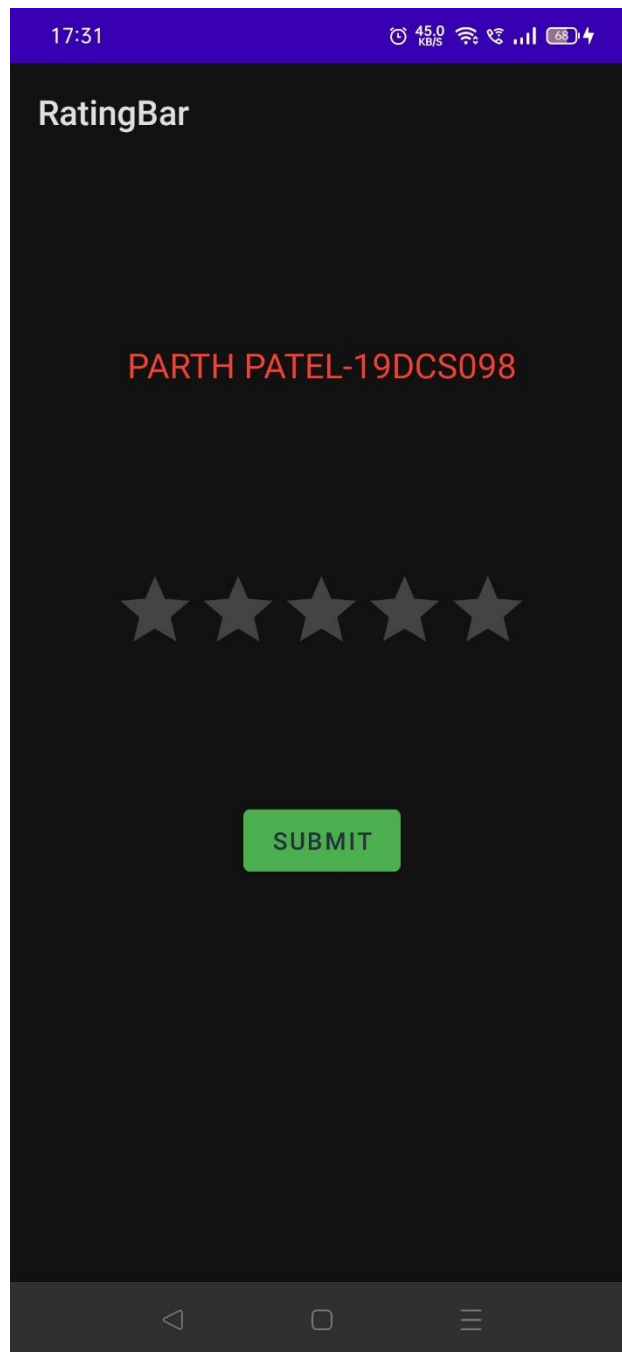
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
```

```
setContentView(R.layout.activity_main);

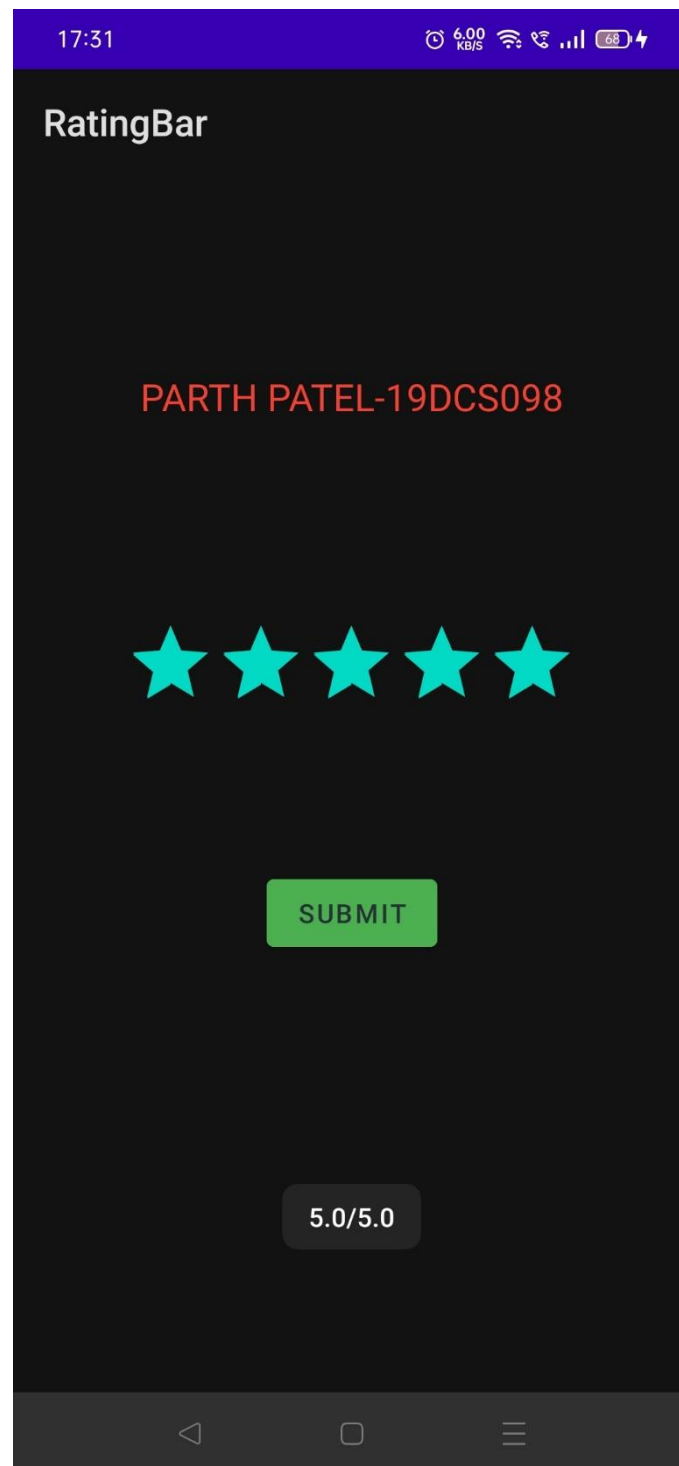
ratingBar = findViewById(R.id.ratingBar);
button = findViewById(R.id.button);

button.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        String str=String.valueOf(ratingBar.getRating());
        Toast.makeText(getApplicationContext(), str+"/5.0",
Toast.LENGTH_LONG).show();
    }
});
}
```

## OUTPUT:



The image is a screenshot of a mobile application interface. At the top, there is a status bar with a purple background showing the time 17:31, data usage 0.32 KB/S, and battery level 66%. Below the status bar, the app title 'RatingBar' is displayed in white. The main content area has a black background. In the center, the name 'PARTH PATEL-19DCS098' is written in red. Below the name, there are five stars; the first three are solid red, and the next two are half-filled (red on the left, grey on the right). Below the stars is a green button with the text 'SUBMIT' in white. At the bottom, there is a grey button with the text '3.5/5.0' in white. The bottom of the screen shows the standard Android navigation bar with back, home, and recent apps icons.



The screenshot shows a mobile application interface with a dark theme. At the top, a purple status bar displays the time 17:31, data speed 0.00 KB/S, and battery level 68%. The app's title bar is black with the text 'RatingBar' in white. Below the title bar, the name 'PARTH PATEL-19DCS098' is displayed in red. Underneath the name is a row of five gray stars for rating. A green 'SUBMIT' button is centered below the stars. At the bottom, a dark gray box shows the current rating '0.0/5.0'. The Android navigation bar is visible at the very bottom.