Practical No.: 13.1

Aim: Simple Progress Bar in Android

Source Code:

activity_main.xml

```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">

    <ProgressBar
        android:id="@+id/simpleProgressBar"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="10dp"
        android:visibility="invisible"/>

    <Button
        android:id="@+id/startButton"
        android:layout_width="200dp"
        android:layout_height="wrap_content"
        android:layout_below="@id/simpleProgressBar"
        android:text="Start"
        android:layout_marginTop="40dp"
        android:layout_centerHorizontal="true"/>

</RelativeLayout>
```

MainActivity.java

```java
package com.example.practical_no_13_1;

import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.ProgressBar;

public class MainActivity extends AppCompatActivity {

    ProgressBar progressBar;
    Button button;

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

```java
        progressBar=findViewById(R.id.simpleProgressBar);
        button=findViewById(R.id.startButton);

        button.setOnClickListener(
            new View.OnClickListener() {
                @Override
                public void onClick(View v) {
                    progressBar.setVisibility(View.VISIBLE);
                }
            }
        );
    }
}
```

Output: