```java
package gr.uom.changefragments;


import android.os.Bundle;
import android.view.View;
import androidx.appcompat.app.AppCompatActivity;
import androidx.fragment.app.Fragment;
import androidx.fragment.app.FragmentManager;
import androidx.fragment.app.FragmentTransaction;

public class MainActivity extends AppCompatActivity {

    private FragmentManager fragmentManager;
    private Fragment fragmentRed;
    private Fragment fragmentGreen;

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

        fragmentManager = getSupportFragmentManager();
        fragmentRed = new FragmentRed();
        fragmentGreen = new FragmentGreen();

        findViewById(R.id.buttonRed).setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                replaceFragment(fragmentRed);
            }
        });

        findViewById(R.id.buttonGreen).setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                replaceFragment(fragmentGreen);
            }
        });
    }

    private void replaceFragment(Fragment fragment) {
        FragmentTransaction fragmentTransaction = fragmentManager.beginTransaction();
        fragmentTransaction.replace(R.id.fragmentContainer, fragment);
        fragmentTransaction.commit();
    }
}
```