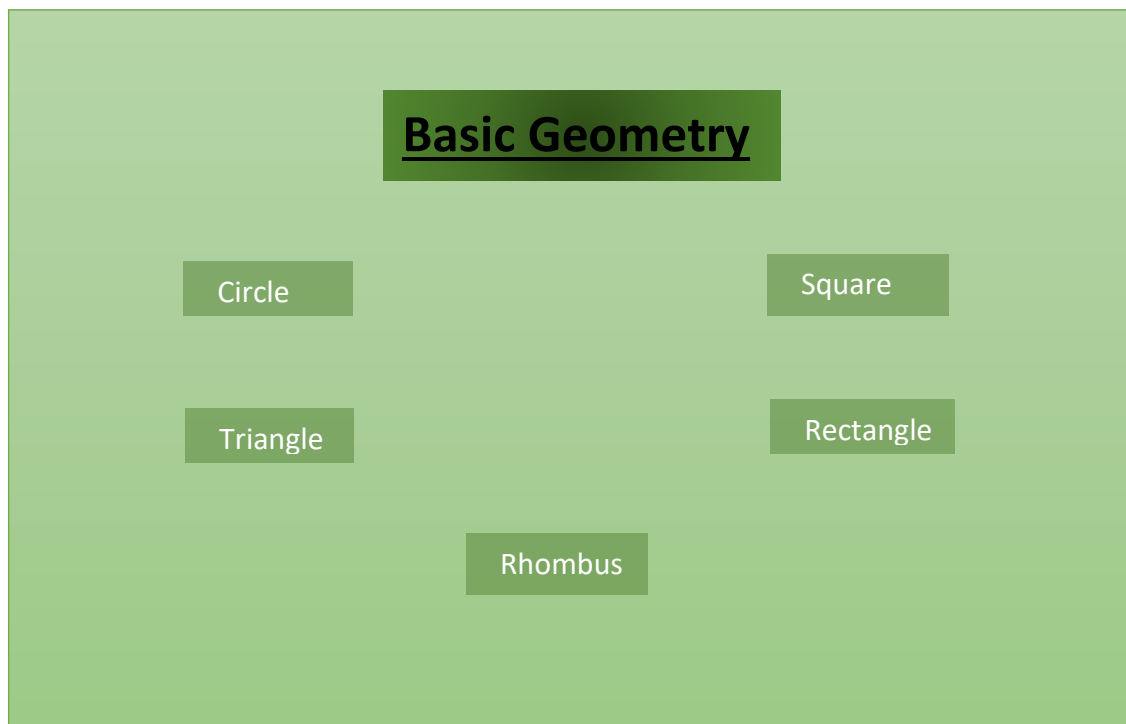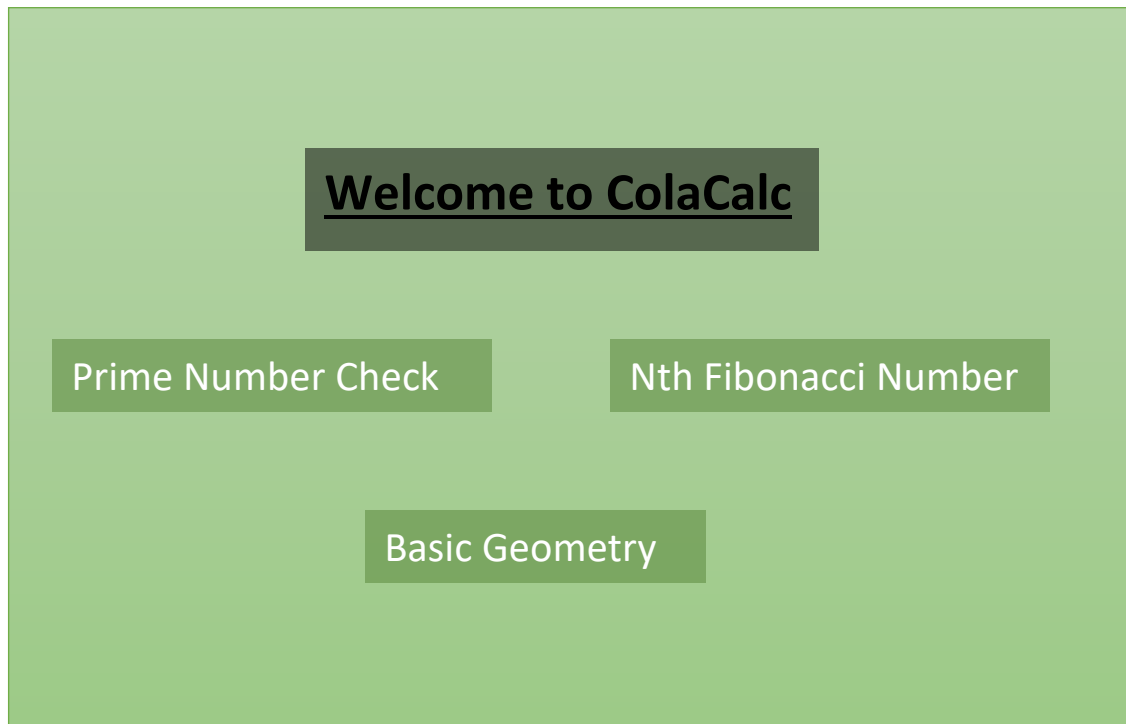# Project Idea

UI Elements:

1. Button for Geometry – when clicked, there are five other boxes for different figures.
2. Button box for nth Fibonacci – when clicked gives up a small pop-up window
3. Button box for Prime Number Check – when clicked gives up a small pop-up window

Welcome to ColaCalc

Prime Number Check   Nth Fibonacci Number

Basic Geometry

Basic Geometry

Circle   Square

Triangle   Rectangle

Rhombus

Small Pop-up Manu (Nth Fibonacci Number):

Nth Fibonacci Number

Number Cannot exceed 250

Insert a number: 8

$F_0 = 0, F_1 = 1$

$F_n = F_{n-2} + F_{n-1}$

Result: 21

Small Pop-up Manus (Nth Prime Number):

Prime Number Check

Number Cannot exceed 9223372036854775807

Insert a number: 1888

Result: It is not Prime! 2 is one of its factors.

Small Pop-up Manu For Geometry Figures (Circle example):

Tools:

We'll use JSwing library for the UI elements and Github to host our application.

Testing:

We'll use the Junit5 testing framework for Java and JVM to test our application.