Requirements

- 1. Object oriented elements that you write code for:
 - a. Classes
 - i. Switchable
 - ii. MainMenu
 - iii. MenuFail
 - iv. Guassian
 - v. CallModel
 - vi. PutModel
 - vii. BlackScholesInfo
 - viii. BlackScholesCalculator
 - b. Subclasses
 - i. BlackScholesCalculator extends Switchable
 - ii. MainMenu extends Switchable
 - iii. CallModel extends Guassian
 - iv. PutModel extends Guassian
 - c. Abstract Class
 - i. Switchable
 - d. Interface
 - i. CommonEquations is implemented by CallModel and PutModel
- 2. Code elements that you utilize
 - a. HashMap utilitzed in Switchable
 - i. Line 22
 - b. Exception Handling
 - BlackScholesCalculator.CalculatorPutPrice()
 - 1. NumberFormatException
 - a. Line 465
 - 2. NullPointerExceptioon
 - a. Line 472
 - ii. BlackScholesCalculator.CalculateCallPrice()
 - 1. NumberFormatException
 - a. Line 495
 - 2. NullPointerException
 - a. Line 502
 - iii. BlackScholesCalculator.readFile()

- 1. FileNotFoundException
 - a. Line 519
- 2. IOException
 - a. Line 521, 526
- iv. Switchable.add()
 - 1. IOException
 - a. Line 53
 - 2. Exception
 - a. Line 56
- 3. Clearly Defined Model
 - a. CallModel
 - i. Private variables
 - 1. lines 20-29
 - ii. Public get/set functions and constructor
 - 1. lines 34-132
 - b. PutModel
 - i. Private variables
 - 1. Lines 20-29
 - ii. Public get/set functions and constructor
 - 1. Lines 31-130
- 4. Scene Switching
 - a. Switchable facilitates scene switching with switchTo() method
 - i. Line 64
 - b. MainMenu.handleGoToB switches scenes to BlackScholesCalculator
 - i. Line 39
 - c. BlackScholesCalculator allows for switching to MainMenu and BlackScholesInfo
 - i. BlackScholesCalculator.handleGoToA changes scene to MainMenu
 - 1. Line 390
 - ii. BlackScholesCalculator.handleGoToC changes scene to BlackScholesInfo
 - 1. Line 397
 - d. BlackScholesInfo allows for switching scenes to MainMenu and

BlackScholesCalculator

- i. BlackScholesInfo.handleGoToA changes scene to MainMenu
 - 1. Line 55
- ii. BlackScholesInfo.handleGoToC changes scene to BlackScholesCalculator
 - 1. Line 61
- 5. Access "About" information
 - a. MainMenu.aboutMenu shows a popup of information about the project

- i. Line 59
- b. BlackScholesCalculator.aboutMenu shows a popup of information about the project
 - i. Line 96
- c. BlackScholesInfo.abouMenu shows a popup of information about the project
 - i. Line 40
- 6. Save and Load Data
 - a. BlackScholesCalculator facilitates saving and loading of application
 - i. Saving
 - 1. BlackScholesCalculator.handleSave()
 - a. Line 432
 - 2. BlackScholesCalculator.saveFile()
 - a. Line 533
 - ii. Loading
 - 1. BlackScholesCalculator.handleLoad()
 - a. Line 414
 - 2. BlackScholesCalculator.readFile()
 - a. Line 509