Equation

- bracket constant: Fraction - constant: Fraction

- slope: Fraction

- answer: Fraction
- unknownVariablePlacementCase: int + Equation(String expr)
- equationSide(String equation): String
- unknownAndBracketCleaner(String expression): String
- setUnknownPlacement(String slopeString): void
- groupingUnknownTerms(String expr): ArrayList<String> - setSlopeValue(String mxTerm): Fraction
- groupingConstantTerms(String expr): ArrayList<String>
- setConstantValue(String constantB): Fraction - bracketConstantSubstring(String equaation): String
- setBracketConstantValue(String bracketConstantB): Fraction
- answerSubstring(String equation): String - setAnswerValue(String answerY): Fraction
- + getSlope(): Fraction + getBracketConstant(): Fraction
- + getConstant(): Fraction
- + getAnswer(): Fraction + getUnknownVariablePlacementCase(): int
- setSlope(Fraction slopeM): void
- setBracketConstant(Fraction bracketConstantB): void
- setConstant(Fraction constantB): void
- setAnswer(Fraction answerY): void - setUnknownVariablePlacementCase(int Case): void

EquationCalculator

- + ANSI PURPLE: String + ANSI RESET: String
- possibleTermsArrav(): ArravList<String> - bracketScenario(String leftSide, String rightSide, String[] possibleTerms): int
- noBracketsScenario(String userInput, String[] possibleTerms): int[]
- inputValidator(String userInput): void
- + EquationSolver(String equationString): Fraction - firstStep(Fraction answer, Fraction slope, Fraction constant); Fraction
- + main(String[] args); void

Quiz

- + ANSI YELLOW: String + ANSI PURPLE: String
- + ANSI RED: String + ANSI GREEN: String + ANSI RESET: String
- input: Scanner
- initialStartingTime: long - elapsedTimeSinceStart: long
- + Quiz()
 - randomNumberGenerator(): int
- addOrSubtract(): String
- answerVerifier(ArrayList<String> equations, int questionNum): String
- elapsedTime(): void
- messageOutput(String userInputResult, int correctAnswers): int - finalOutputMessage(int correctAnswer, int totalOuestions); void
- oneStepEquations(): void
- twoStepEquations(): void - multiStepEquations(): void