Problem 6

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| Identifier | UserStory\_01 |
| User Story Description | As a user I want to check the exact value of golden ratio up to 10 decimal places to check a number with closest approximation to φ. |
| Constraints | The calculator should be in its initialized state, I.e. the user should press “CLR” key to clear the previous result on display. |
| Acceptance Criteria | In order to check the value of golden ratio, the user presses “φ” key. The result should be equal to 1.6180339887. |
| Priority | Must have. |
| Estimate |  |

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| Identifier | UserStory\_02 |
| User Story Description | As a user, I should be able to find whether a given rectangle is golden rectangle or not. |
| Constraints | User should enter two positive numbers as input. |
| Acceptance Criteria | * The user divides length of the rectangle with the width of the rectangle. * The result will display. * The user will press “φ” key and then “=” key. * If the result is equal to φ, “YES” is displayed on the screen, else “NO” is displayed. |
| Priority | Should have |
| Estimate |  |

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| Identifier | UserStory\_03 |
| User Story Description | As a user I want to edit my input I.e. delete wrongly entered digits or correct the number to input during my calculation. |
| Constraints | The user can only delete or correct the values to input before pressing “=” key, I.e. before evaluating the result. |
| Acceptance Criteria | Given that the user wants to calculate the sum of 4 numbers   * User inputs 5+1+4+7 * User moves the cursor to 4 and deletes it by pressing “DEL” key. * User enters 2 and then presses “=” key. * The result 15 is displayed. |
| Priority | Must have |
| Estimate |  |

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| Identifier | UserStory\_04 |
| User Story Description | The user wants to do a new calculation by applying the operations on the previous results evaluated. |
| Constraints | The user should press “=” key before applying operations on the evaluated result. |
| Acceptance Criteria | * The previous result displayed is 25. * The user wants to apply division on this evaluated result. * User will press “+” and then “5” key. * New result 5 is displayed. |
| Priority | Must have. |
| Estimate |  |

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| Identifier | UserStory\_05 |
| User Story Description | The user wants to store the operations performed in memory (in the order they were executed), so that they can be used later for reference or other calculations |
| Constraints | The operations saved are lost after the calculator is turned off. |
| Acceptance Criteria | * The user presses “CLR” key. * User performs multiple operations. * User stores the operations by pressing “SAV” key. * Operations get stored in the order they were performed. |
| Priority | Should have |
| Estimate |  |