Daily Log

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| Date | Completed | To do tomorrow |
| Thursday November 10, 2016 | 9 screens except for the labels  Completed labels for 4 of the screens | Finish the labels and make minor adjustments to the screens  Begin the math chart |
| Monday November 14, 2016 | Completed all labels in the screens  Math chart completed  Finished menu of the code | Complete instructions and begin the game |
| Tuesday November 15, 2016 | Completed instructions and addition between 2 random numbers completed | Add a scoreboard to count the number of questions and correct answers. Add progressive difficulty. Add subtraction |
| Wednesday November 16, 2016 | Added subtraction between 2 random numbers. Subtraction when the counter is an odd number and addition when the counter is an even number. Scoreboard added on the top left displaying number of questions, and correct answers along with the level. The level now increases every 16 questions. This will multiply the range of the numbers by 10 every level increased. | Give the user an option to exit in the menu and in game. Add bonus level |
| Thursday November 17, 2016 | User can exit in the menu by typing in 3. User will be given an option to exit the game every 16 questions along with the increase in level. If user enters “any key” in the instructions, it will bring them to a bonus level with multiplication using the same concepts as the addition and subtraction part of the game. Game finished | Review code for any bug or errors |
| Friday November 18, 2016 | Added loading screen before bonus level. Added title | review code for any bugs or errors |

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| Variables | Inputs | Calculations | Output |
| intNumber1  intNumber2  intCounter  intAnswer  intSelect(this will be the menu number selection) | intAnswer(the input for the math questions)  intSelect(selection for the menu)  strContinue(exit the game) | Menu  if intSelect = 1, play the game.  If intSelect =2, go to the instructions  If intSelect = 3, exit the game  Game   * the entire game is under a for loop which will count the number of questions * Generate 2 random numbers and assign them to variables intNumber 1 and intNumber 2 * If intCounter%2==0, it is an even number which will ask for addition between intNumber1 and intNumber2 * Under this if statement, ask user for input. If the input is equal to intNumber1+intNumber2, add 1 to the score and print correct. If the input is not equal to intNumber1+intNumber2, print wrong and the correct answer * Else, ask for subtraction between intNumber1 and intNumber2 * Under this else statement, ask the user for input. If the input equals to intNumber1-intNumber2, print correct and add 1 to the score. If the input does not equal to intNumber1-intNumber2, print wrong and enter the correct answer. * every 16 questions, the level will increase using if intCounter % 16 == 0. Under this if statement, it will add +1 to the level which will also multiply the range of the random number by 10. Also, it will ask the user to continue which the user can type “exit” to exit or anything else to continue.   Instructions  Print the instructions  The user can click any key to go back to the menu  Exit  exit the console | Print the menu options with the title “Math Training” at the top  Print the two randomly generated numbers at the top left with the addition sign if the question number is even and a subtraction sign if the question number is odd. Print the question number with the amount of questions correctly answered on the top right. Print the level below that. If the user input is correct, print “correct” below the input line. If the user input is wrong print “wrong” with the correct answer below that.  Print the instructions and print “type any key to continue”  Print “thanks for playing” before the game exits |