Program Requirements Document

CIS 022 Wednesday, February 7th, 2024

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| **Application/ Program name:** | L1-1 |
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| **Purpose or problem definition:** |
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| This program gathers some integral data from the ser and does some basic variable arithmetic based on those inputs. It also gathers employee information from the user and then calculates and displays the employee’s salary details. |

| **Program Procedures:** |
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| 1. Display information about the source code’s author, the name of the program, and the filename of its compiled .exe form. 2. Display prompt – Ask the user to enter two integers separated by a space. 3. Display the values of the integers entered as variables num1 and num2. 4. Multiply num1 by 2 and then add the result to num2. Assign the total to new variable, newNum, then display the value of newNum. 5. Add the value of a constant SECRET (value is 13) to newNum, then display the new value of newNum. 6. Display prompt – Ask user to enter a last name. 7. Display prompt – Ask user to enter a number between 1 and 100. 8. Calculate employee’s salary by multiplying the number entered in the previous step by the constant pay rate of 12.50. 9. Display employee’s name, pay rate, number of hours worked, and salary. 10. Prompt user to press a key to exit the program. 11. Exit program. |

| **Algorithm/Processing/Conditions:** |
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| **Inputs:** |
| 1. Two integers separated by a space. 2. A last name. 3. A decimal number between 1 and 100. |
| **Processes:** |
| 1. Demonstrates some arithmetic with the use of variables. 2. Calculates an employee’s salary. |
| **Outputs:** |
| 1. Display the values of num1 and num2 2. Display the value of newNum after doing some variable arithmetic. 3. Display the new value of newNum after performing some additional variable arithmetic 4. Display employee salary information. |
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| **Notes & Restriction:** |
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| It is assumed that the user will only enter numerical values for every prompt expecting numerical input.  It is assumed that the user will always enter input when prompted. |

| **Comments:** |
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| There is no error handling in this program.  If the user enters anything other than numbers for prompts that expect only numerical input, the program will unexpectedly exit (crash). |