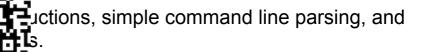
CMPEN 472, The Pennsylvania State University

程序代写代做CS编程辅导

11:30pm Due: Oct. 21, 2024

Objective

To learn how to use writing basic I/O syst



Textbook Reading (for next homework):

1. Chapter 9: Section 9.1, Section 9.2

2. Chapter 9: Section 9.4, Section 9.5

Assignment Project Exam Help

Instruction

- 1. Write a program to make antelementary calculator, displayed on the HyperTerminal connected to the HCS12 board.
- 2. The calculator rules are: 749389476
 - 1. Input positive decimal integer numbers only
 - 2. Input and output maximum four digit numbers only
 - 3. Valid operators are: +, -, *, and /
 - 4. Input number with leading zero is OK
 - 5. Input only two numbers and one operator in between, no spaces
 - 6. Show 'Ecalc> 'prompt and echo print user keystrokes unltil Return key
 - 7. Repeat print user input and print answer after the '=' sign
 - 8. In case of an invalid input format, repeat print the user input until the error character
 - 9. In case of an invalid input format, print error message on the next line: 'Invalid input format'
 - 10. Keep 16bit internal binary number format, detect and flag overflow error
 - 11. Use integer division and truncate any fraction
- 3. The HyperTerminal display should look something like the following:

Ecalc> Ecalc> 123+4 123+4=127 Ecalc> 96*15 96*15=1440 Ecalc> 456@5 456@ Invalid程后线偏高代做 CS编程辅导 Ecalc> 7h4*12 7h Invalid Ecalc> 3*54312 ; due to 5th digit Invalic* Ecalc> 003-678 003-678 Ecalc> 100+999*2 100+999* Invalid We Chat. cstutorcs Ecalc> 555/3 555/3=185 Ecalc> 7*(45+123)Assignment Project Exam Help Invalid input format Ecalc> 78*9999 78*9999Email: tutorcs@163.com Overflow error Ecalc> -2*123 - QQ: 749389476 Ecalc> 73/15 73/15=4https://tutorcs.com Ecalc>

- 4. Make your program user friendly by giving directions as to how to correctly use your program.
- 5. You may want to see the Flow Chart of the above algorithm.
- 6. Also, make your program 'fool-proof', never crash or stop based on wrong user response.
- 7. You may add other features or decorations.
- 8. Design the program to start at \$3100 and data to start at \$3000.
- 9. Be sure to put much comments so that grader and others can clearly and quickly understand your program. Comments are very important in assembly language programs.

- 10. Copy your 'main.asm' file to 'cmpen472hw7_YourLastName.asm'. For example, mine will be 'cmpen472hw7_choi.asm' (Do not ZIP your file.)
- 11. Turn-in your project source code file into the CANVAS Assignment's Homework submission. Be sure to select CMPEN 472 class and correct Homework number, and wit

Congratulations on v

MPEN 472 homework completion!

Epilogue:

Flow chart for the Homework 7. Click here. WeChat: cstutorcs

Aid for the Homework 7. Click here.

Assignment Project Exam Help

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