CIS240 Calculator Project Points

Name

Start by modifying and combining the ADD32 routine in the class notes into the code written in execize8, **pass the following variables by reference** on the stack:

Num1H
Num1L
Num2H
Num2L
Result_L
Result_H

Use the method of BP relative stack addressing to retrieve the data (pointers) from the stack, and save the results (see the PACK_HEX code of exercise 8 and the MAIN routine to see how to pass the variable pointers and retrieve them in the subroutine).

Test the routine by adding two 8 hex digit number's

Extra Features Project Points

Task	Points	Verification
Implement Add32 to respond to "+" (see above description)	6pts	
Limit input number sizes to 8 hex digits	3pts	
Remove the extra enter between numbers	2pts	
Implement Error message for invalid number	2pts	
Add the options of "+" or "-" and Exit "x" or "X" plus Add user prompts at various points in program	Up to 5pts	
Implement Sub32 to respond to "-"	4pts	
After execution of Add or Sub return to option menu	2pts	
Be able to use *same* input data and perform multiple operations (i.e. add, sub, mult, div)	10pts	
Implement 64 bit multiply and Divide and add to menu	25pts	
Double the size to accept 64 bit numbers for Add/Subtract computations	20pts	
Implement the UnPack Hex routine	25pts	
Implement the Pack Hex routine on variable length data	40pts	
Add or Subtract *any* size numbers	50pts	
Your own options by instructor approval	Instructor assigns pt worth	