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Assignment #3

Here is my code

;Assignment 3, this program asks for name, degree, and credits required/taken. It then
;outputs your name, degree, and credits needed.

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;September 30th 2017

.586

.MODEL FLAT

INCLUDE io.h ;Header file for input/output

.STACK 4096 ;Reserving 4096 bytes of memory on the stack.

.DATA ;This is where all of my variables are declared.

creditsRequired DWORD ?

creditsTaken DWORD ?

prompt1 BYTE "Enter your first and last name seperated by a space.", 0

prompt2 BYTE "Enter the name of your degree.", 0

prompt3 BYTE "Enter the number of credits required.", 0

prompt4 BYTE "Enter the number of credits you have taken.", 0

aMsg BYTE "Your name is.", 0

bMsg BYTE "Your degree is.", 0

cMsg BYTE "Number of credits still required.", 0

pName BYTE 40 DUP (?)

degree BYTE 40 DUP (?)

temp BYTE 40 DUP (?)

.CODE ;This is where all of my code is written.

_MainProc PROC

input prompt1, pName, 40 ;Asking the user to input their name.

input prompt2, degree, 40 ;Asking the user to input their degree.

input prompt3, temp, 40 ;Asking the user to input the number of credits needed.

atod temp ;Converting temp into a number.

mov creditsRequired, eax ;Moving the value of EAX into the variable creditsRequired.

input prompt4, temp, 40 ;Asking the user to input the number of credits taken.

atod temp ;Converting temp into a number.

mov creditsTaken, eax ;Moving the value of EAX into the variable creditsTaken.

mov eax, 0 ;Resetting EAX to 0.

mov eax, creditsRequired ;Moving the value in creditsRequired to EAX.

sub eax, creditsTaken ;Subtracting the value in creditsTaken from EAX.

dtoa temp, eax ;Converting the value in EAX to a string and storing it in temp.

output aMsg, pName ;Outputting the name of the user.

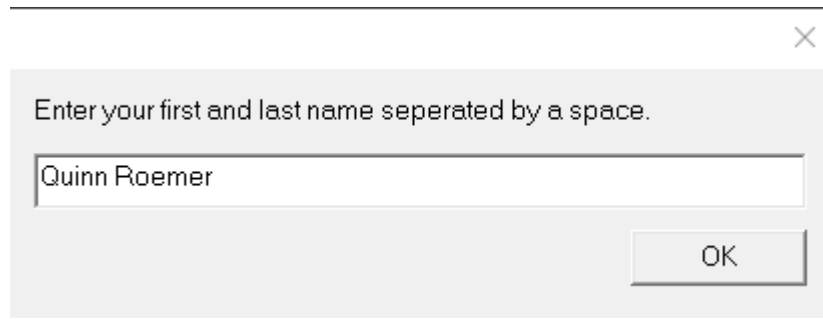
output bMsg, degree ;Outputting the name of the user's degree.

output cMsg, temp ;Outputting the number of credits needed for the degree.

```
mov eax, 0          ;Setting EAX to 0.  
ret                ;Returning.  
_MainProc ENDP  
END                ;End of code.
```

Here is my output

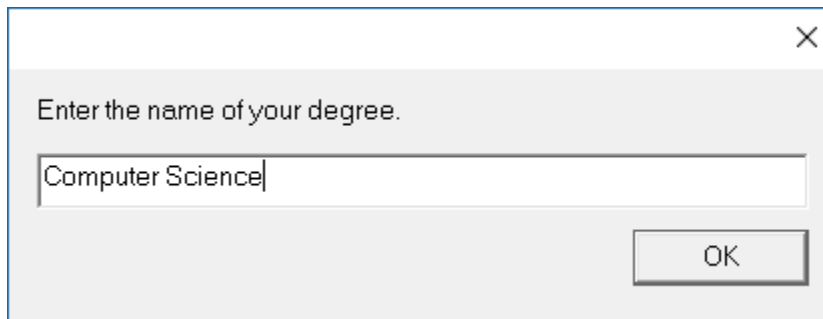
Output 1



Enter your first and last name seperated by a space.

OK

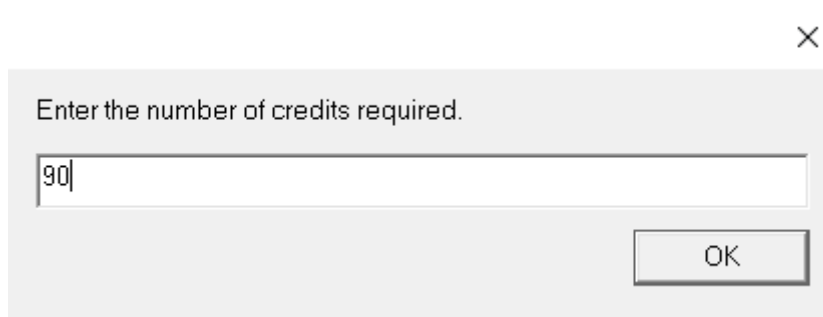
Output 2



Enter the name of your degree.

OK

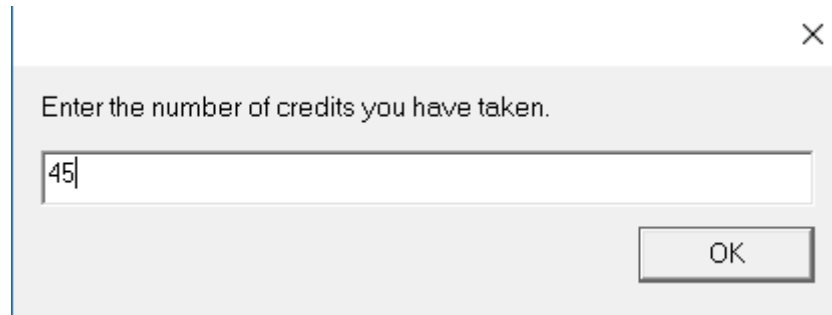
Output 3



Enter the number of credits required.

OK

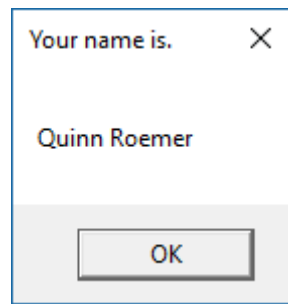
Output 4



Enter the number of credits you have taken.

OK

Output 5

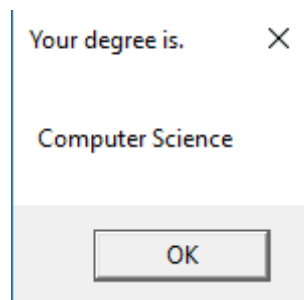


Your name is.

Quinn Roemer

OK

Output 6

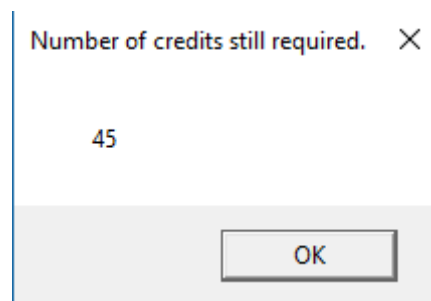


Your degree is.

Computer Science

OK

Output 7



Number of credits still required.

45

OK