**CS401P Assignment #1 spring 2023**

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**Problem Statement:**

Write an assembly language program that calculates the sum of all even numbers from 1 to N, where N is the largest digit of your VUID. Use jumps and labels to implement the necessary loops and conditionals. Store the final sum in a variable named sum.

**Requirements:**

* Calculate the sum of all even numbers from 1 to N, where N is the largest digit of your VUID.
* Use jumps and labels to implement loops and conditionals.
* Store the final sum in a variable named sum.

Note: Save the code file with your last four digits of VUID.

**Solution:**

**Assembly code:**

[org 0x0100]

jmp start

num: db 4

sum: db 0

start:

mov bx,[num]

mov cx,4

mov ax,0

label:

and bx,1

cmp bx,0

jnz skip

add ax,cx

skip:

sub cx,1

mov bx,cx

cmp cx,0

jnz label

mov [sum],ax

mov ax,0x4c00

int 0x21

**Output:**

