CPSC 240: Computer Organization and Assembly Language

Assignment 06, Fall Semester 2023

CWID:\_\_\_885857847\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Name:Kush Patel\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Download the “CPSC-240 Assignment06.docx” document.
2. Design the "print.asm" program to calculate the sum of "1+2+3+…+99" and displays the result in a terminal window.

Calculates 1+2+3+...+99 and displays the result in a terminal window

char str1[] = "1+2+3+...+99=";

register short cx = 1;

short sum = 0;

char ascii[5] = "0000\n";

for(cx=1; cx<=99; cx++)

sum += cx;

ascii = itoa(sum);

cout << str1 << ascii;

1. Assemble the "print.asm" file and link the "print.o" file to get the "print" executable file.
2. Run the "print" file to display the conversion results of ascii in Terminal Emulator window.
3. Insert source code (print.asm) and simulation results (Terminal Emulator window) at the bottom of the document.
4. Save the file in pdf format and submit the pdf file to Canvas before 23:59 pm on 10/26/2023.

[Insert print.asm source code here]

A screenshot of a computer program

Description automatically generated

[Insert print simulation result (Terminal Emulator Window) here]

A screen shot of a computer screen

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[Insert print simulation result verification here]

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A screen shot of a computer program

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