# Project 04: Instruction Sets: Addressing Modes and Formats

**Due on 12/03/2018**

Use the following command to generate the assembly code in test.s on Window PC or Linux CS99. (gcc is a GNU c compiler, test.c is the C program).

test.c program:

#include <stdio.h>

int main (void)

{

int s=0,i=0;

for (i=0; i<10; i++)

s = s+i;

printf("The sum is %d\n", s);

return 0;

}

On a Bradley Lab Window PC run the following commands in a cmd window:

C:\Dev-cpp\bin\gcc -g -c test.c

C:\ Dev-cpp\bin\objdump -d -S test.o > test.s

Or

On CS99 run the following commands in a SSH shell window:

> gcc -g -c test.c

> objdump -d -S test.o > test.s

Write the comments for each assembly instruction in the test.s. The comments should explain the address mode used and the meaning of each or a group of assembly instruction(s) as much as you can.

Submit the assembly program with your comments in a Microsoft word file and Upload your report on the class Sakai Drop Box before the due day.