

## In-lab 8 Preparation

To prepare for In-lab Exercise 7, look over the process for designing, coding, linking, and testing a small assembly language program. You are going to write a small function to add two words together in a function by passing the numbers as arguments on the stack. You should also read over the lecture notes on the stack and the instruction `move.w` plus the addressing modes `-(sp)` and `(<disp>, sp)`.

You should create two source files, one for your calling function and one for your adding function. You will also need a Link Control File (`.lcf`) to link the object output from the two assemblies together with the `bdblib` object file.

Your calling function will resemble this fragment of C++:

```
int num1 = 47;
int num2 = 53;
int result;
...
result = add(num1, num2);
cout << "sum of " << num1 << " and " << num2;
cout << " is " << result << endl;
```

And your adding function:

```
int add(int a, int b)
{
    return a + b;
}
```