# **Microprocessors (662-133) NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Lab #11 – Printing Functions and Arrays

Description

This lab will detail how to use the various print functions in C. The student will then modify the code to perform a sorting operation on the given arrays.

Learning objectives

1. Create the proper file structure needed by Eclipse.
2. Use expanded debugging techniques available in C.
3. Create a C program.
4. Use the expression window to debug and evaluate program operation.
5. Observe function calls.
6. Use the disassembly to view the assembly program created by the complier.
7. Use C to perform the sorting of an array of numbers.
8. Practice using the various print functions in C.

Procedure

Copy the lab11.c program into Eclipse and single step thru the program to observe the operation of the print functions for both integer and floating point numbers. After you have learned these functions then modify the program to sort the integers low to high and the floating point numbers high to low.