## **Documentation Standards**

All programming projects must be documented. Documentation counts for at most 10% of the programming project grade. At the top of each file, please include a comment block containing the following information. Note, it does not have to look like this "box" style documentation. However, it should be very readable.

- 1. Your Name
- 2. Course Name
- 3. Project Number and Title
- 4. Due Date
- 5. Instructor's Name

## **EXAMPLE:**

Each procedure or function should have a documentation "header" that includes the following information

- 1. Function or Procedure Name
- 2. A Brief Description of the Function or Procedure
- 3. Value Parameter Data Dictionary
- 4. Reference Parameter Data Dictionary
- Local Variable Data Dictionary

## **EXAMPLE:**

```
// Linear Search Function
// This function performs a linear search on an list of student
// records. If the search key is found in the list, the return
// value is true and false otherwise.
// Return Value
// -----
// bool
                        True/False if Key is found
// Value Parameters
           string
StudentList
// Key
                        The search key
// SList
                        The list of student structures
//
// Reference Parameters
// -----
// location int
                        The location where Key is found
bool linear search( SList StudentList, string Key, int &location )
```

```
11/4/2020
 {
   // local variables
   bool retval;
   int ii;
   // initialize local variables
   retval = false;
   ii = 0;
   location = -1;
   // search for the key in the list
   for( ii=0; ((ii<SList.Size()) && (!retval)); ii++ )</pre>
      if( SList.Name == Key )
           location = ii;
           retval = true;
         }
   // return to calling function
   return( retval );
```