Your submission must include the following:

1. The listing of your program code (executable form in COBOL);
2. A copy of the created files using the test data provided in this document.
3. A screen capture as .pdf of one of the screens from your program execution
4. Your Function or Hierarchy Charts as pdf files.
5. Your Flowcharts as pdf files.

**Program Requirements** A program is required to write Student Records to an external file from the data fields entered at the keyboard.  
 Three data fields are to be entered at the keyboard which will be the three sequential fields in the record. The structure of the Student Record is given below (see STUDENT RECORD Format).  
 As each data field is entered, it should be preceded by a prompt for that field.  
 A decision is required as to whether a record is to be entered. Therefore a prompt and response is required. The answer to that prompt will determine whether the process to enter data and write the record is to be executed. (Hint – that prompt and response should be made during the Initialization routine and as the last routine in the mainline).

**STUDENT RECORD Format**The record format for the Student Record to be written to the file is described below. Please note that no formatting or editing of the output fields is to be made.  
 Student Number 7 bytes numeric  
 Tuition Owed 5 bytes numeric  
 Student Name 40 Bytes Alphanumeric  
  
When you run the program, you must use the test data provided below in **Test Data**   
  
Your program code should include meaningful prompts for each of the three data fields to be entered and for the prompt whether a record is to be entered. All data fields should have meaningful names. Refer to the document on Standards in the Hybrid/Online content area in Brightspace.

**Test Data**You must use the test data shown below for the two records to be entered at the keyboard and written to the file. There is to be no editing or formatting of the data to be written to the file.

Please note that testing data is shown here on multiple lines for readability. However, when written to the output file a student record would show on one line in the output file. Also note that output files are usually not for human browsing. Therefore, no need for white spaces in output files as these takes up space in storage. If the output file is intended for printout as report, white spaces need to be used to make it human readable.

record 1 **(student number) 1234567  
(Tuition owed) 10000  
(Student Name) Smith, Donald**

record 2 **(student number) 1234578  
(Tuition owed) 19000  
(Student Name) Johnson, Herman**

**Marking Scheme (as applicable)**

### Refer to Notes Regarding Grading below for specific points that will be checked and influence the marks allocated.

Output format and content \_\_\_ / 20  
Program listing \_\_\_ / 50

Documentation \_\_\_ / 30

**TOTAL \_\_\_\_ / 100**

**Notes Regarding Grading**

The **program listing** will be examined primarily for:

1. relationship to function chart and flowchart;
2. use of prescribed commands as required by the problem specifications;
3. application of standards and structures;
4. use of proper functional constructs (cohesion and coupling);
5. use of internal comments;
6. successful compilation and execution.

The **output reports (hard copy or screen displays if required)** will be examined for accuracy of the output information and the prescribed format as noted in the program requirements (Output Record Structure).

The **documentation** will be examined to ensure:

1. proper use of symbols and logical diagrams/narratives (i.e. flowcharts);
2. proper structure and content of structure/function/hierarchy charts;
3. clear and accurate report or screen layouts (if required);
4. clear description or comments of the program logic; and, relationship to the program code.

Any violation of the established standards (Standards document in the Hybrid/Online content area of Brightspace) will result in a loss of at least 5 points.  
Any discrepancy regarding the grading notes above will result in a loss of at least 5 points.