**Instructions**

1. Copy COBOL.LOADLIB to you userid for use with Assignments,   
   if needed  
     
   KC02597.DCMAFD01.COBOL.LOADLIB  
   as  
   KC03YYY.DCMAFD01.COBOL.LOADLIB
2. Copy starter datasets and members   
   for cobol source files, and JCL source files  
   1. KC02597.DCMAFD01.A1.COBOL (A1START)  
      as  
      KC03YYY.DCMAFD01.A1.COBOL (A1CLIST)
   2. KC02597.DCMAFD01.A1.JCL (A1CL)  
      as  
      KC03YYY.DCMAFD01.A1.JCL (A1CL)
   3. KC02597.DCMAFD01.A1.JCL (A1R)  
      as  
      KC03YYY.DCMAFD01.A1.JCL (A1R)
3. Create A1CLIST program based on specifications below.
4. Use A1CL JCL to compile/LKED the program
5. Use A1R JCL to execute the program
6. Submit the appropriate files based on the submission requirements

**Note: YYY is last three letters in your mainframe userid KC03YYY**

**Specifications**

This program will create a formatted output file called   
KC03YYY.DCMAFD01.A1.REPORT.OUT   
from data hard-coded in the program.

The output will report the name, email address and phone number of yourself and at least two other students.

1. Collect contact data from two other students in the class  
   1. Name
   2. Email address
   3. Phone Number
2. Plan working-storage variables to properly store, and file variables to output the contact data  
   1. Determine the size of the text in the heading
   2. Determine the maximum field sizes needed to store   
      the Name, Email and PhoneNumber contact data
   3. Determine the overall record size for the output file
   4. Use the overall record size on both the record contains clause of the file and the 01 level record
   5. Make sure that the heading and detail 01 level variables are the same size as the overall record size
3. Use one 01 level variable in working-storage for the heading  
   1. The 01 level variable will need to be subdivided into several 05 level variables so as to control the spacing left and right of the heading text and align it over the contact data
   2. The text for the heading should be stored in one of the 05 working-storage variables of the heading 01 level variable and be initialized with a VALUE clause that contains the string for the heading text
   3. The spaces can be 05 FILLER working-storage variables of the appropriate size to align the heading text and be initialized using the VALUE SPACES clause
4. Use one 01 level variable in working-storage for a contact (detail line)  
   1. The 01 level variable should be subdivided into several 05 level variables for the different parts of the contact information   
      – Name, Email, PhoneNumber
   2. In the Procedure Division,   
      For each contact, move the string values for Name, Email, PhoneNumber to the 05 level working-storage variables before the contact (detail line) is output to the file
5. Sequence of the output to the file  
   1. blank line
   2. heading line
   3. blank line
   4. first contact data
   5. second contact data
   6. third contact data

Your output file output should look something like this but with your contact information:

Mainframe I Contact List

Gregory Oakes Gregory.Oakes@durhamcollege.ca 905-321-1234

Mary Bell mary.bell@dcmail.com 416-773-2342

Ed Bigalo ed.bigalo@dcmail.com 289-230-1231

**Submission Requirements**

Submit a zip file containing the solution files to the drop box in DC Connect.

**Marking**

**1** mark for heading stored in working-storage

**3** marks – 1 mark for each contact moved to working-storage

**6** marks – 1 mark for each line written from working-storage to output file

**1** mark for output columns aligned and heading centered

**1** mark for correct program name

**1** mark for correct output file name   
**5** mark for zip or 7z file containing

the A1CLIST cobol source and   
the A1.REPORT.OUT file and   
the entire compile/LKED JCL job summary and   
the entire execute JCL job summary

**Total 18 marks**