## COBOL Basics Lab 1

## GOALS:

- Sign on to the mainframe.
- Navigate the ISPF Primary Option menu to find HELLO1 and view it.
- Navigate out and sign off.
- 1. Use the **Course Lab Kit** to get your **ID** and **PASSWORD** (write your ID and PASSWORD in a safe place because you will need it again!) and begin your mainframe session. The first thing you will see once you sign on looks something like this:

```
ICH70001I TS0ZC01 LAST ACCESS AT 14:29:41 ON THURSDAY, MARCH 18, 2021
IKJ56455I TS0ZC01 LOGON IN PROGRESS AT 14:39:26 ON MARCH 18, 2021
IKJ56951I NO BROADCAST MESSAGES
Allocating ISPF/PDF environment...
Test for Netmail
INMR003I You have no messages or data sets to receive.
%C12 EZCLQ1

Your assigned DB2 Subsystem is DSNC
Allocating DB2 libraries now. Please wait for ***
You can hit enter once you see the three asterisk.

***
```

2. The 3 asterisks at the bottom are a signal to press the **ENTER** key to continue.

The next screen, called the **ISPF Primary Option Menu** looks something like this:

```
Menu Utilities Compilers Options Status Help
                             ISPF Primary Option Menu
Option ===>
   Settings
                  Terminal and user parameters
  View
                 Display source data or listings
                 Create or change source data
  Edit
  Utilities
                 Perform utility functions
  Foreground
                 Interactive language processing
                 Submit job for language processing
Enter TSO or Workstation commands
  Batch
   Command
  Db2
                 Db2 Menus
                 ITS extended menu
   ITS MENU
   SDSF
                 System Display and Search Facility
```

The cursor is near the top, to the right of the word **Option**.

3. To retrieve your COBOL program, you need to type this in: **3.4** and then press **ENTER**.

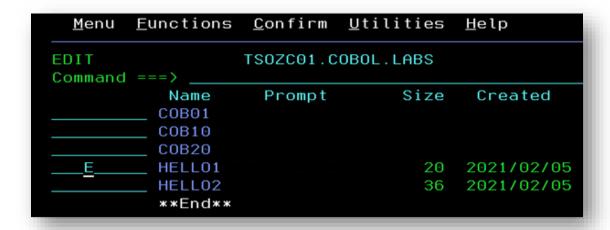
This will take you to the **Data Set List Utility**. Your ID is shown in the middle, to the right of the words **Dsname Level**.

4. Now press the **ENTER** key, and you will see a list of all your data sets (also known as files).

```
Options <u>V</u>iew <u>U</u>tilities
                                     Compilers
  <u>M</u>enu
                                                 <u>H</u>elp
DSLIST - Data Sets Matching TSOZC01
Command ===>
Command - Enter "/" to select action
         TS0ZC01
         TS0ZC01.C0B0L.LABS
         TSOZCO1.DATA
         TSOZCO1.EXEC
         TSOZCO1.ISPF.PROFILE
          TSOZC01.JCL.CNTL
         TSOZCO1.SPUFI.IN
         TSOZC01.SQLOUT
         TSOZCO1.TSOLOG.DATA
```

The list of datasets reveals one by the name of **TSOZC01.COBOL.LABS**. The first part of the name (TSOZC01) is likely to be different, as each student will have a unique ID. Don't worry about this!

- 5. Place your cursor to the left of the **TSOZC01.COBOL.LABS** dataset, and type this single letter **E**.
- 6. Then press the **ENTER** key. This will take you to a list of COBOL programs!



- 4. Place your cursor to the left of the **HELLO1** program (this is also known as the "HELLO1 member") and type this single letter **E**.
- 5. Then press the **ENTER** key. This will take you to the COBOL program!

```
Edit Edit_Settings
                          Menu Utilities Compilers <u>T</u>est <u>H</u>elp
          TS0ZC01.C0B0L.LABS(HELL01) - 01.02
EDIT
                                                      Columns 00007 00078
                                                        Scroll ===> CSR
Command ===>
      000100 IDENTIFICATION DIVISION.
000300 ENVIRONMENT DIVISION
000500 * THIS PROGRAM DISPLAYS A 'HELLO WORLD' MESSAGE that will 000600 * SHOW UP IN THE SYSYOUT OF THE JOB OUTPUT.
000800 CONFIGURATION SECTION.
000900 SPECIAL-NAMES. SYSIN IS SYSIN.
001000 INPUT-OUTPUT SECTION.
001100
001200 FILE SECTION.
001300
001400 01 WORK-FIELDS
                                        PIC X(1)
001700 ** THIS PROGRAM WILL PUT 'HELLO WORLD' ON THE OUTPUT
F1=Help
            F2=Split
                        F3=Exit
                                    F4=Expand
                                                            F6=Rchange
            F8=Down
 F7=Up
```

Welcome to the mainframe editor! The editor allows you to scroll down by pressing the **F8** key and to scroll up by pressing the **F7** key (more at the bottom of the screen).

Congratulations! You Signed on to mainframe, navigated the ISPF Primary Option Menu to find the HELLO1 program.

When you finished viewing it, you need to navigate out and sign off.

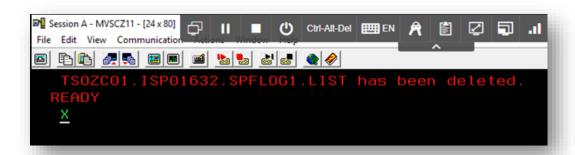
How?

Look at the bottom of the screen! There is a function key that you can press several times to Exit. A faster way is to do this:

6. At the top of the screen, to the right of **Command** ===> type =X.

Be sure your exit sign (=X) is placed where there is a line beneath it.

When you press enter, you will land here:



7. Type the letter **X** and press the **ENTER** key and you will be signed off!

We are finished now!