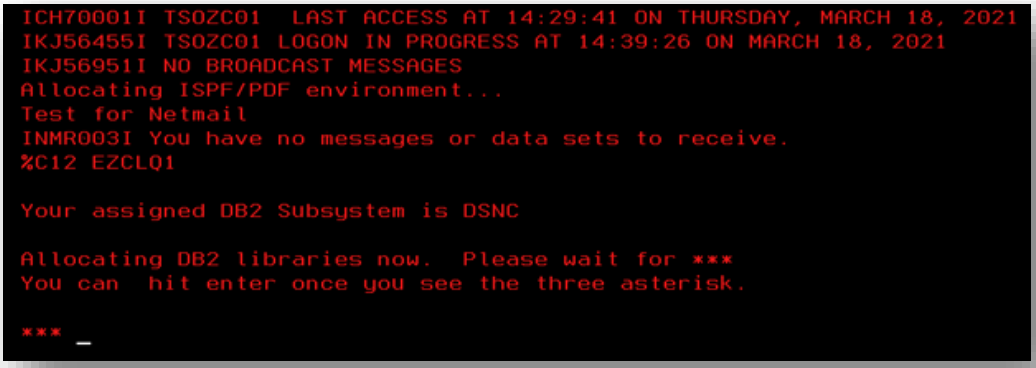
COBOL Basics Lab 2

GOALS:

- Sign on to the mainframe.
- Navigate the ISPF Primary Option Menu to find HELLO2.
- Add more greetings on the lines following 'HELLO WORLD', save the changes.
- Navigate to JCL member HELLO2 and submit the JCL to the system.
- Note whether or not the return code is zero or not, then navigate out and sign off.

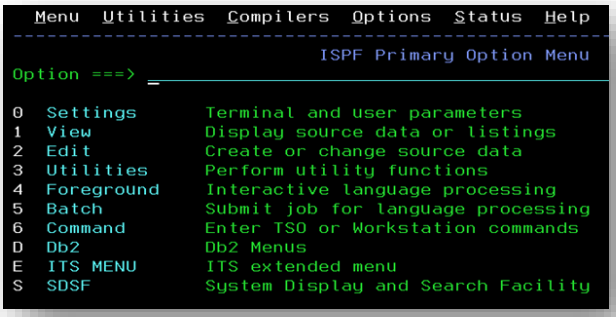
Step-by-step:

1. Use the **Course Lab Kit** only if you have forgotten your **ID** and **PASSWORD**. *(If you wrote your ID and PASSWORD and kept it in a safe place, you can log on to a mainframe session.)*



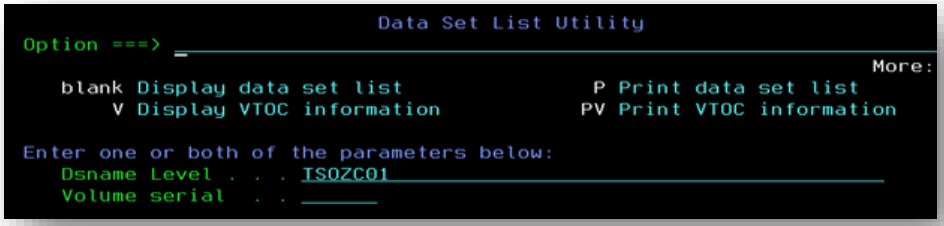
2. The 3 asterisks at the bottom are a signal to press the **ENTER** key to continue.

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

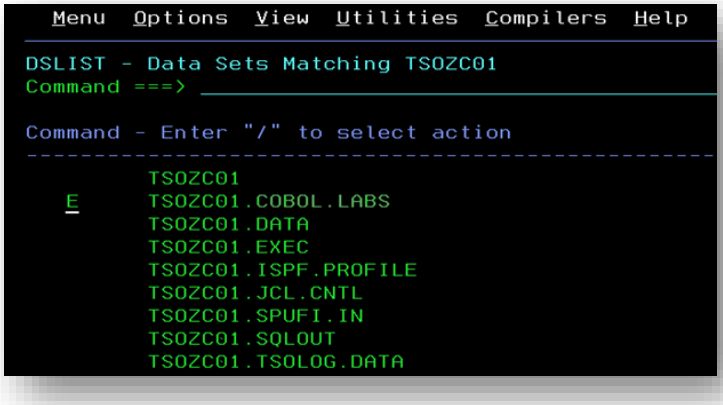


3. The cursor is near the top, to the right of the work **Option**.
4. To retrieve your COBOL program, you need to type **3.4** and press **ENTER**.

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**.

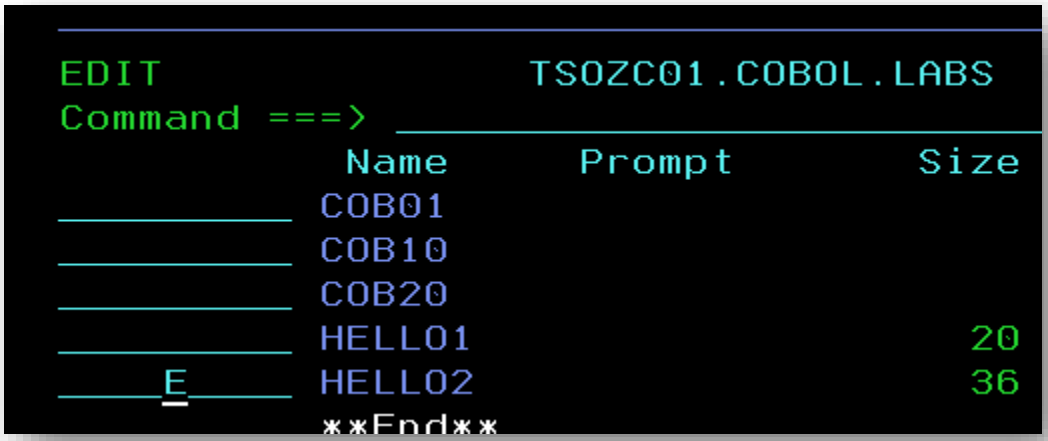


5. Now press the **ENTER** key, and you will see a list of all your data sets *(also known as files)*.

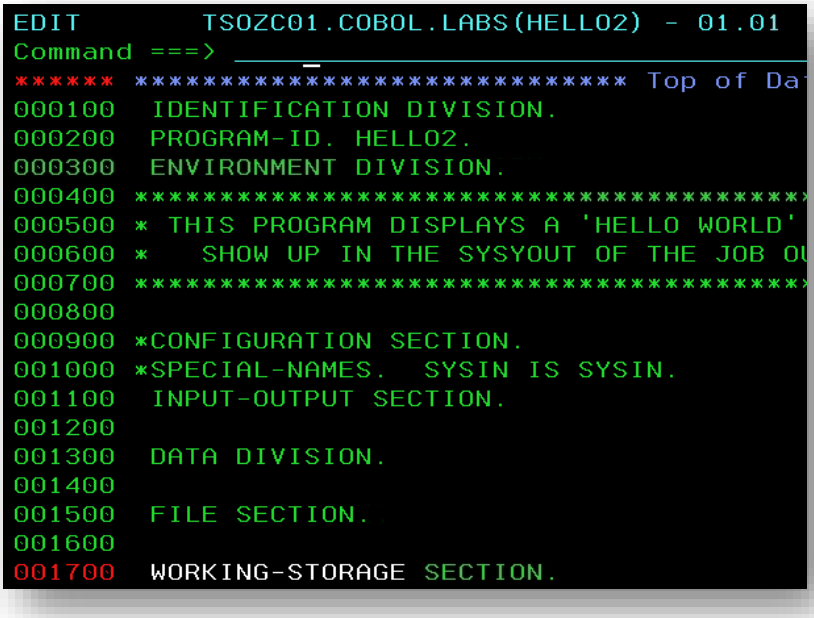


The list of datasets reveals one by the name of **TSOZC01.COBOL.LABS**. The first part of the name (TSOZC01) is likely to be different, as each student will have a unique ID. Don't worry about this!

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



8. Place your cursor to the left of the **HELLO2** program (this is also known as the "HELLO2 member") and type **E**.
9. Then press the **ENTER** key. This will take you to the COBOL program!

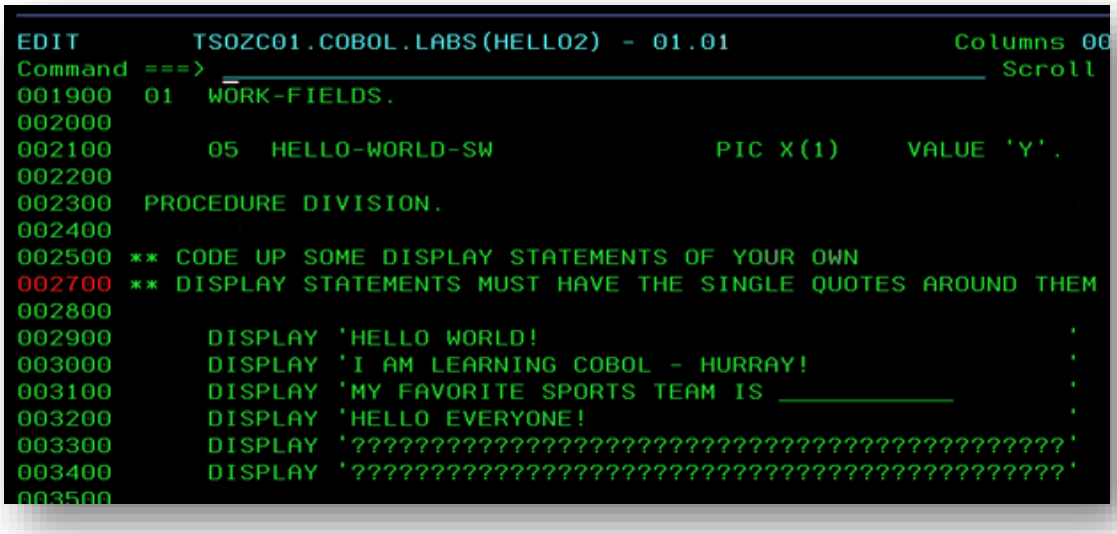


Welcome to the mainframe editor! The editor allows you to scroll down by pressing the **F8** key and to scroll up by pressing the **F7** key. *(More information at the bottom of the screen.)*

10. When you scroll down by pressing the **F8** key once, this is what you will see:

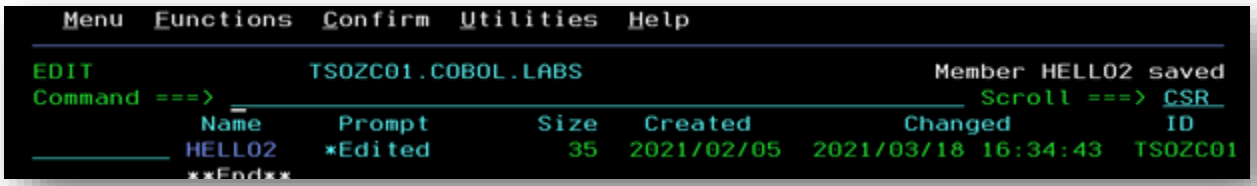
This program has room for you to place some of your own words. So, move your cursor down to where you see empty spaces next to **DISPLAY** and type in what you wish. Be careful not to remove the single quotes that are in the **B margin** (on the left and right of where words can be typed in).

Here's an example of what one person might do:

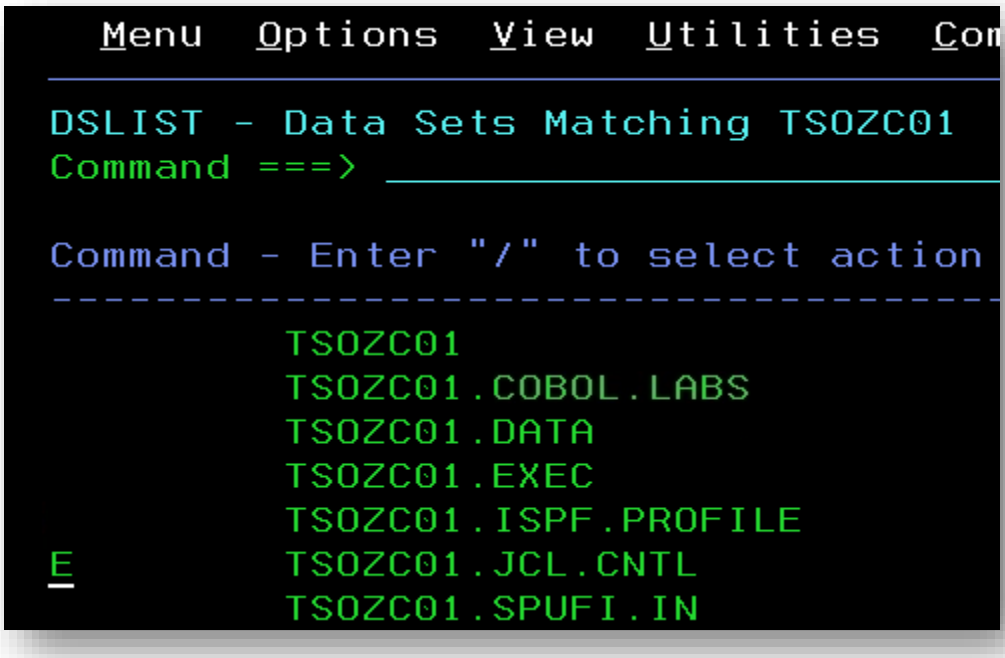


CONGRATULATIONS! You have Signed on, navigated the ISPF Primary Option Menu to find HELLO2, and added more greetings on the lines following 'HELLO WORLD'. Now you need to save the changes, navigate to JCL member HELLO2 and submit the JCL to the system, noting whether or not the return code is zero, then navigate out and sign off.

11. Press the function key number 3 (F3). This will automatically save your changes, and take you out of the edit environment.

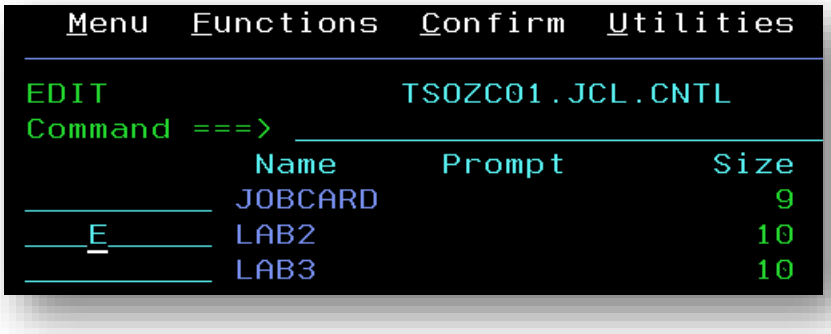


12. Notice the message in the upper right corner that confirms the save!
13. Now, to navigate to JCL, press **F3** again, and you will see the list of datasets.

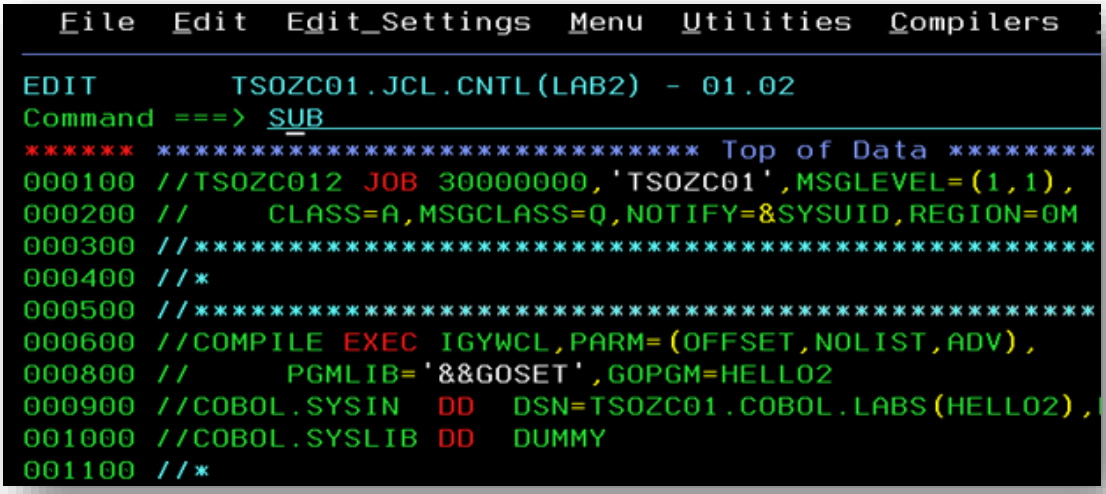


14. Place the cursor to the left of the **JCL.CNTL** dataset and type **E**.

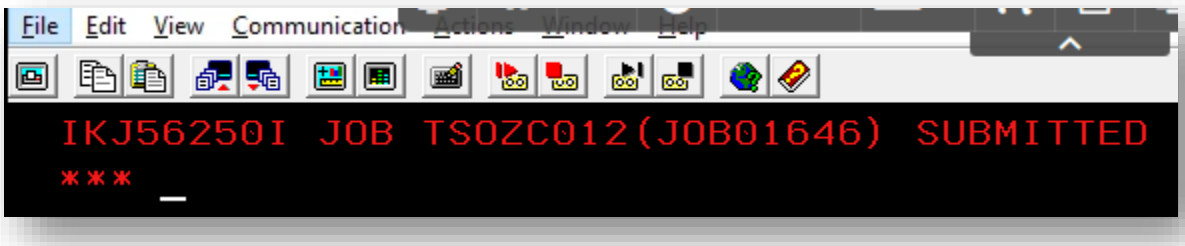
15. Press **ENTER** and you will see a list of JCL members. Open **LAB2** by placing an **E** next to it and then pressing **ENTER**.



16. This has JCL statements. Place **SUB** on the command line, and press **ENTER**!

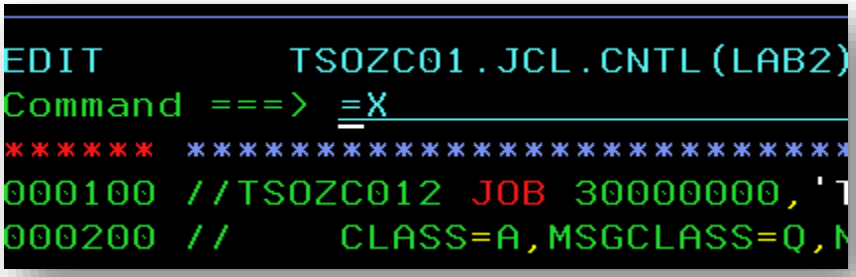


17. Next is a message on the screen, with your JOB name (**TSOZC012**) and your JOB number (**JOB01646**).
18. When you press **ENTER**, you will get another message:

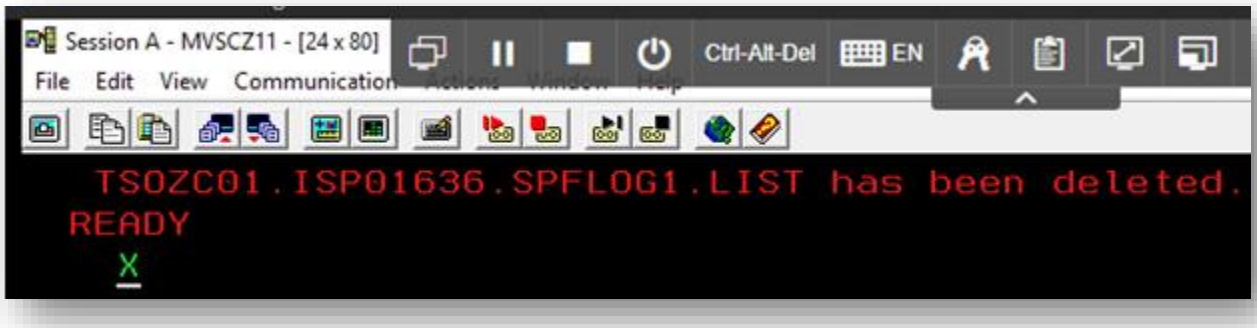


This message tells us if the job has run successfully or not. In this case, it is successful. How do we know? MAXCC=0000 means there were no errors. If you do not get all zeroes, you will need to look carefully at the program and the JCL to see if you can find the error. You may need a friend to help you.

19. Press **ENTER**, you are back in an **EDIT** session:



20. Type **=X** and you will leave ISPF and enter TSO mode.
21. Type in **X** (or type the word **EXIT**).
22. Press **ENTER** and you will be logged off.



Congratulations! You signed on to mainframe and found the HELLO2 program. You added more greetings on the lines, saved the changes, then navigated to JCL member HELLO2. You then submitted a JOB (carrying the JCL) to the system. Then you noted if the return codes are zeros (or not), then navigated out and sign off.

We are finished now!