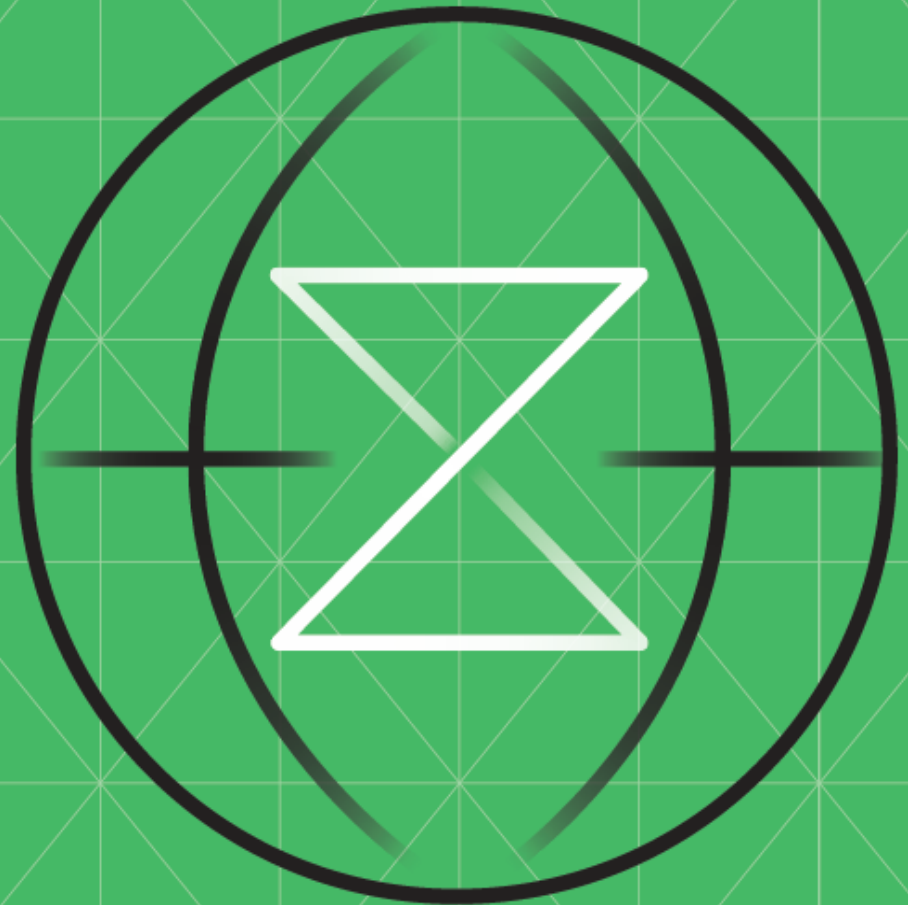


TSISPF102

Navigate TS0 and ISPF

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LET'S USE A TERMINAL

The Challenge

During this challenge you will be guided through the initial logon procedure using a 3270-terminal emulator.

Once you are logged in you will be guided through the first menu options to get yourself familiar with the options and get your ISPF set up for success.

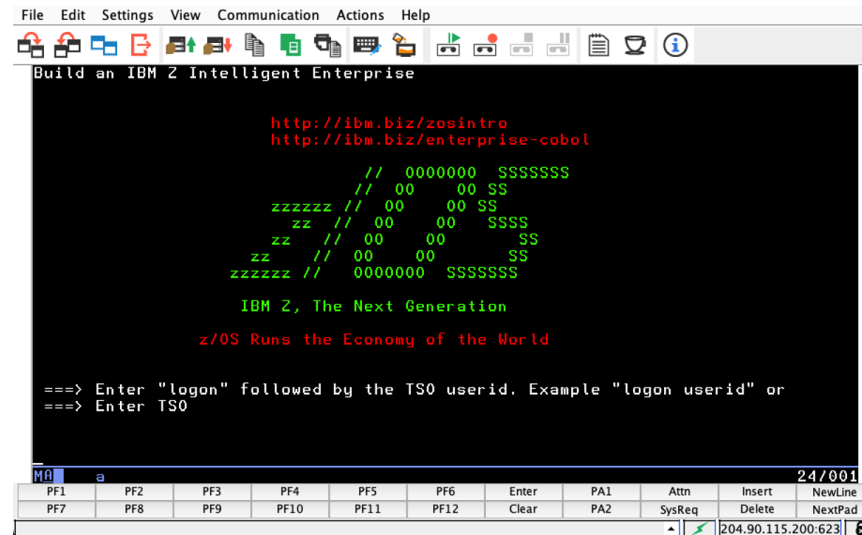
Before You Begin

Make sure you have completed the TS01 challenge to set up your workstation. You should be able to open and connect your workstation to the IBM Z Xplore mainframe using a 3270 emulator.

Investment

Steps	Duration
12	60 minutes

1 THE START SCREEN



Make sure that you have completed the TS01 challenge and that you have a running terminal session connected to the system.

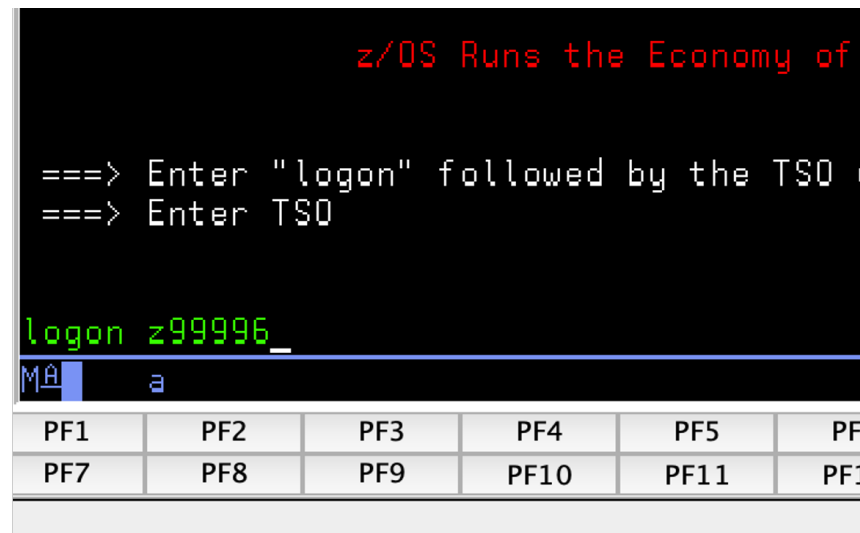
When you have started a new session it should give you a logon screen as shown above.

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2 LOGON COMMAND

While the cursor is on the default position, type "logon zxxxxx" and press Enter.

Use your userid as provided in the VSC1 challenge as part of Fundamentals.



The screenshot shows a terminal window with a black background. At the top, the text "z/OS Runs the Economy of" is displayed in red. Below it, two lines of white text provide instructions: "===> Enter 'logon' followed by the TSO u" and "===> Enter TSO". The user has entered "logon z99996_" in green text. A blue cursor is positioned at the end of the input. Below the terminal window, a keyboard layout is shown with a grid of function keys labeled PF1 through PF11.

PF1	PF2	PF3	PF4	PF5	PF6
PF7	PF8	PF9	PF10	PF11	PF12

Enter Key: Most 3270 emulators use lower-right-side Ctrl key as the Enter key. If you want to change location of the 3270 emulator default Enter key, the emulator software may have a keyboard mapping function.

Whatever emulator you are using, make sure that the "Enter" on your keyboard is the same "Enter" for your 3270 emulator.

3 SSHHH ... PASSWORD

The next screen (the Logon panel) provides you with more options.

It also gives you the opportunity to change your password and change some parameters of the logon process.

(Do NOT use this panel to change your password – continue to use the [Password Reset challenge](#))

Leave it all on default for the time being.

```
File Edit Settings View Communication Actions Help
----- TSO/E LOGON -----
IKJ56714A Enter current password for Z99996

Enter LOGON parameters below:                RACF LOGON parameters:
Userid   ==> Z99996
Password ==>
Procedure ==> DBPR0CCG
Acct Nmbr ==> FB3
Size     ==> 32768
Perform  ==>
Command  ==>

Enter an 'S' before each option desired below:
-Nomail      -Nonotice    -Reconnect    -OIDcard

PF1/PF13 ==> Help  PF3/PF15 ==> Logoff  PA1 ==> Attention  PA2 ==> Reshow
You may request specific help information by entering a '?' in any entry field

MA a 08/027
-----
PF1 PF2 PF3 PF4 PF5 PF6 Enter PA1 Attn Insert NewLine
PF7 PF8 PF9 PF10 PF11 PF12 Clear PA2 SysReq Delete NextPad
Connected to server/host 204.90.115.200 using lu/pool TCP00221 and port 623 204.90.115.200:623
```

Enter your password while you make sure that the prompt is on the default position of the screen and hit enter.

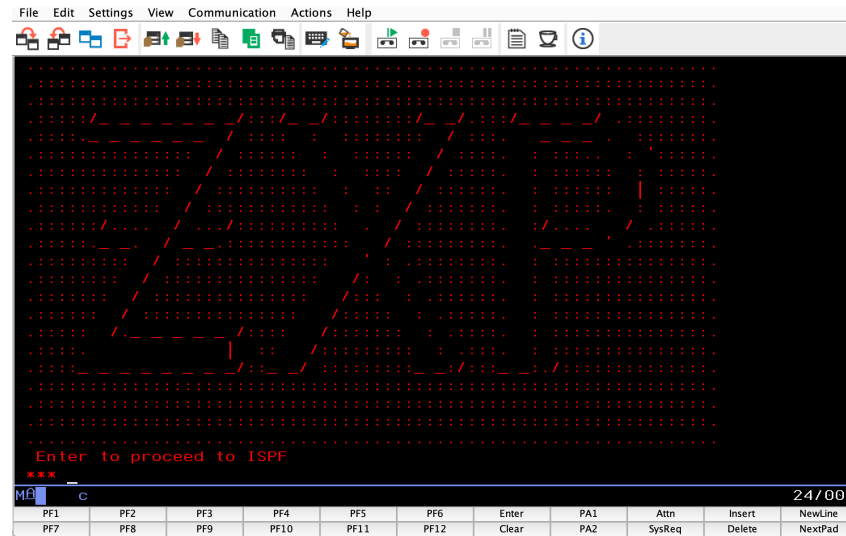
(The password is completely hidden - you will see the cursor move in the password field as you type, but no letters, or asterisks ...)

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3.1 *** ENTER

During the logon procedure you will a screen which mentions that address space is allocated.

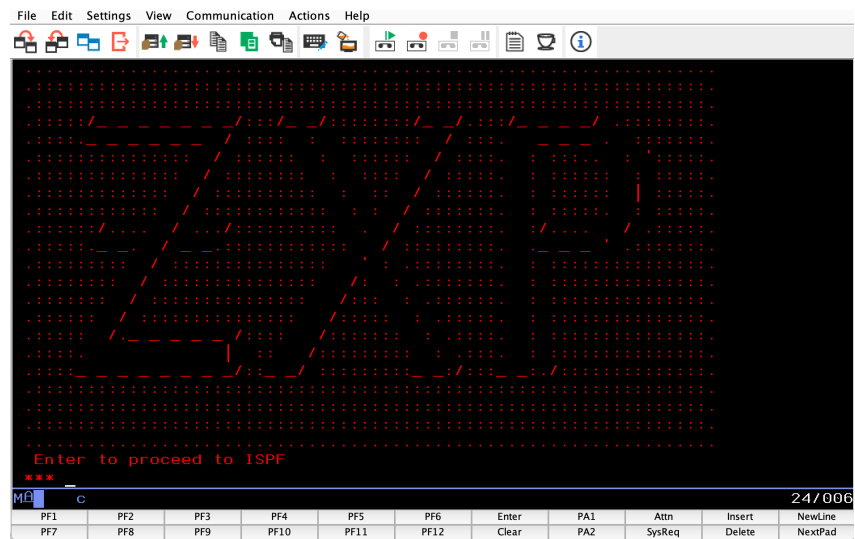
When completed, you will get prompted to press Enter to continue to ISPF.



Note: Whenever three asterisks appear together, that means more information is available - the current screen will stay displayed; press Enter to continue and see the next screen(s).

The next screen shows the total duration of the allocation procedure where it will prompt you again with three asterisks.

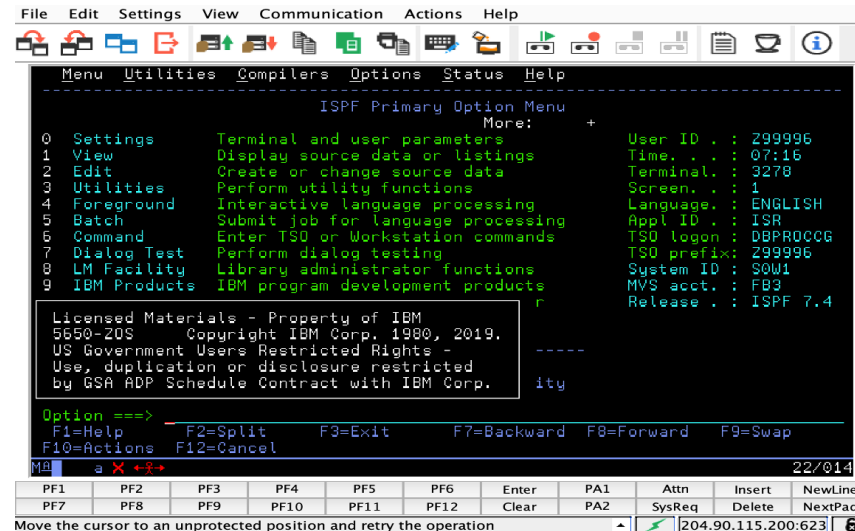
Now you know what to do, right?



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4 ISPF

After you logon to **TSO**, it will automatically redirect you to **ISPF**.



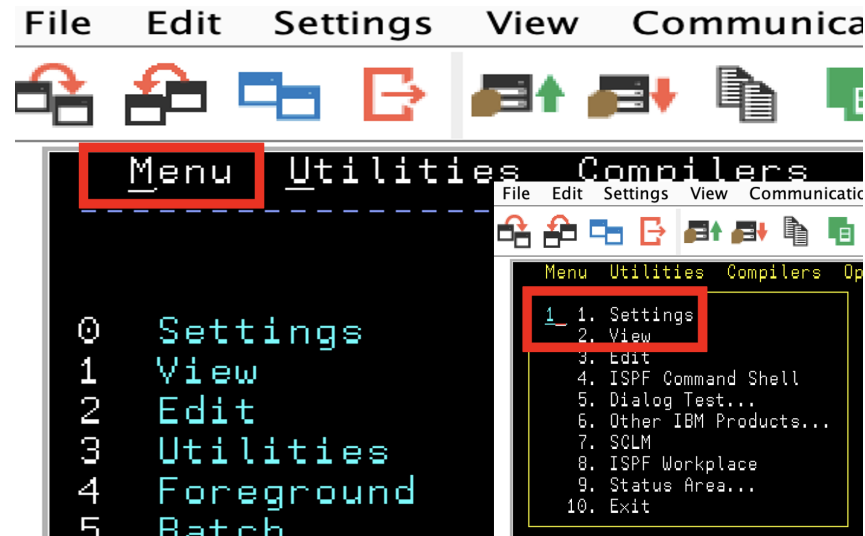
ISPF stands for the Interactive System Productivity Facility.

This is a menu- and panel-driven layer on top of TSO which helps you execute tasks in a user-friendly way.

Take some time to navigate through the menu structure by entering your number of choice on the option line followed by Enter.

Use F12 (also called Program Function Key 12, or PF12) to go back one step.

5 SET SOME DEFAULTS



Now that we have successfully logged into TS0, we want to set up ISPF.

First, let's have you change some default settings.

Use the arrow keys to get the cursor on the top left menu option and press Enter.

This will open a sub-menu where you will type **1** for "Settings".

Hint: Another way to move around ISPF is by moving your cursor to where you want to go, click and press Enter.

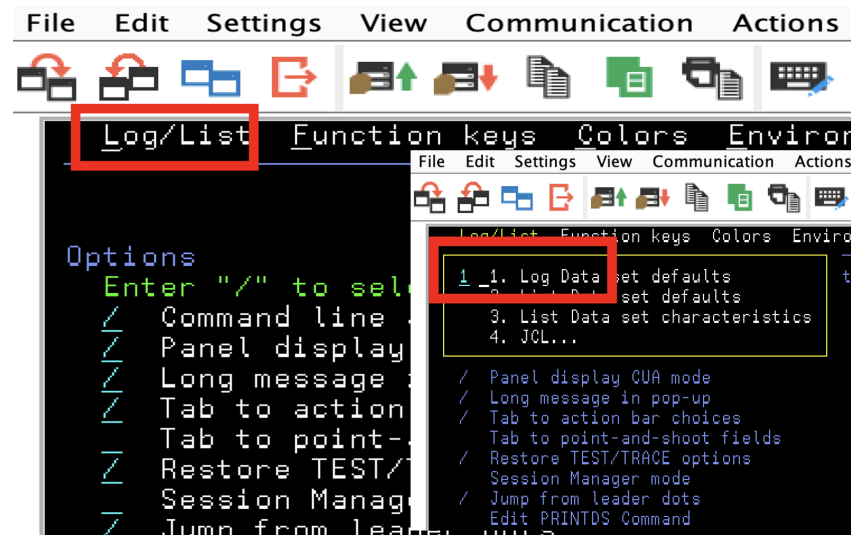
TSO and ISPF - go together like love and marriage

TSO means Time Sharing Option and allows users to create an interactive session with z/OS. TSO is a basic command prompt interface which allows a single user to execute tasks on z/OS.

ISPF means Interactive System Productivity Facility which helps users execute tasks in a menu driven way.

A complete guide to ISPF can be found [here](#).

6 LOG SETTINGS

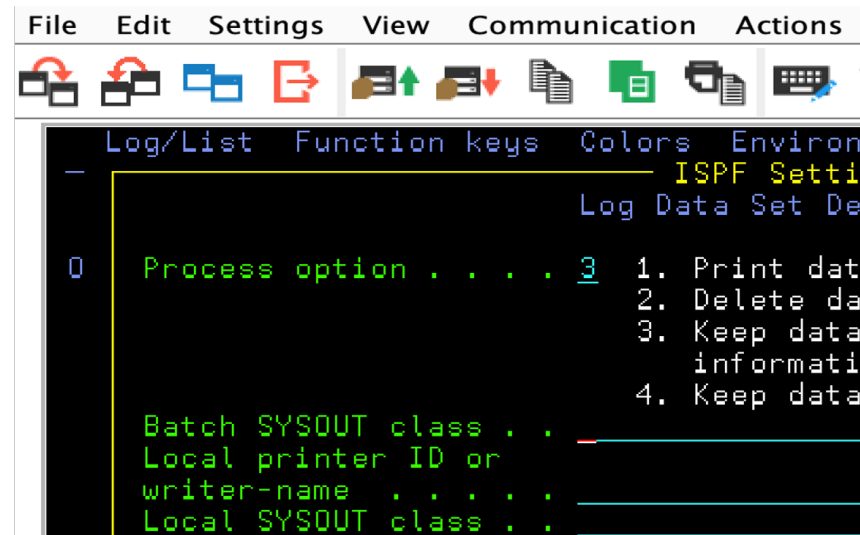


Bring the cursor back to the upper left area and place it at the location of "log/list" and hit enter.

This will open the log settings.

Type option **1** to select "Log Data Set defaults".

7 KEEP THE SETTINGS

A screenshot of the ISPF (Interactive System Programming Facility) Settings menu. The menu is displayed in a terminal window with a black background and green text. The menu structure is as follows: The top bar contains the following items: File, Edit, Settings, View, Communication, and Actions. Below the top bar is a row of icons. The main menu items are: Log/List, Function keys, Colors, and Environ. The 'Log/List' item is selected, and its sub-menu is displayed. The sub-menu items are: ISPF Setti, Log Data Set De, and a list of options. The options are: 0 Process option 3, 1. Print dat, 2. Delete da, 3. Keep data, 4. Keep data, Batch SYSOUT class . . , Local printer ID or, writer-name , and Local SYSOUT class . . . The option '0 Process option 3' is highlighted with a yellow bar. The option '3. Keep data' is highlighted with a green bar. The option 'Batch SYSOUT class . .' is highlighted with a red bar. The option 'Local printer ID or' is highlighted with a blue bar. The option 'writer-name' is highlighted with a cyan bar. The option 'Local SYSOUT class . .' is highlighted with a magenta bar.

Press **3** to keep the dataset and press Enter once again.

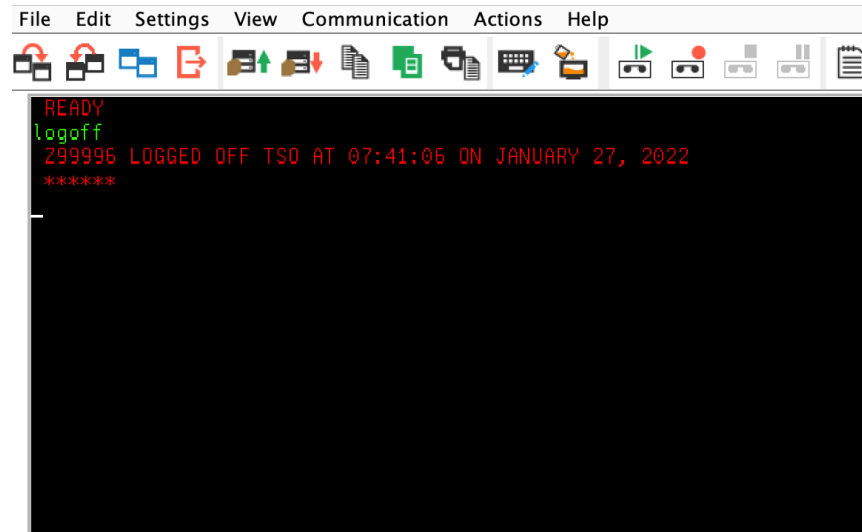
Press F3 to return to the ISPF Primary Option Menu.

Press F3 a final time to logoff.

This will end your session and activate your newly-set default settings when you logon again.

*Hint: **PF** and **F** are the same. Your keyboard will show one or the other.*

8 LOGOFF



A screenshot of a terminal window with a menu bar (File, Edit, Settings, View, Communication, Actions, Help) and a toolbar. The terminal displays the following text:

```
READY
logoff
2999996 LOGGED OFF TSO AT 07:41:06 ON JANUARY 27, 2022
*****
```

You have activated the logging settings for the use of problem determination in case you get into difficulties in future challenges.

Make sure you keep these settings in order to get your challenges completed without errors.

If you find this did not work, repeat the steps again.

Now that you have updated our settings, let's logon again to get your credit for this challenge.

Common keys

ISPF COMMONLY USED KEYS		LOCKED KEYBOARD
F1	Help	When navigating ISPF, you will come across moments where you lock your keyboard and you cannot type anything. You know your keyboard is locked if there is a red X and a red man at the bottom left of your terminal.
F2	Split Screen	
F3	End/Exit	
F4	Return to Primary Option Menu	
F7	Page Up	
F8	Page Down	
F9	Switch views between split screens (F2)	
F10	Scroll Left	
F11	Scroll Right	
F12	Scroll Right	
Ctrl (left side)	Resets locked keyboard	

9 GET YOUR CREDITS

```
9 IBM Products IBM program development products MVS acct. :
Release . :
Licensed Materials - Property of IBM
5650-ZOS Copyright IBM Corp. 1980, 2019.
US Government Users Restricted Rights -
Use, duplication or disclosure restricted
by GSA ADP Schedule Contract with IBM Corp.
Option ==> tso submit 'zxp.public.icl(TS02)'
F1=Help F2=Split F3=Exit F7=Backward F8=Forward F9=
F10=Actions F12=Cancel
MA a
```

PF1	PF2	PF3	PF4	PF5	PF6	Enter	PA1	Attn	Ins
PF7	PF8	PF9	PF10	PF11	PF12	Clear	PA2	SysReq	Del

nnected to server/host 204.90.115.200 using lu/pool TCP00243 and port 623 204.90.11

Just like you did in VSCode, to successfully complete a challenge, you need to do a JCL check job.

As you might guess, running a check job on TS0 looks a bit different than on VSCode.

To submit a job on TS0, you will be using a command on the **Option ==>** prompt to submit a JCL script.

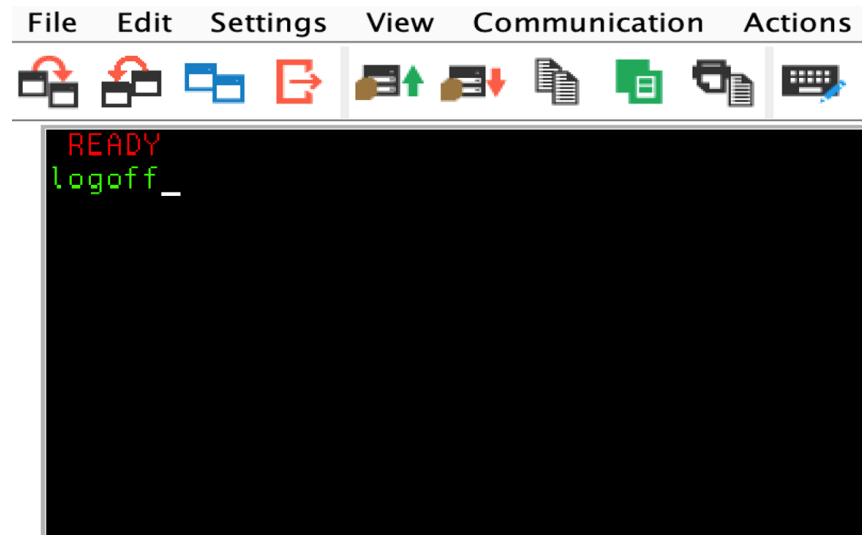
Make sure your cursor is at the option line and type:

```
tso submit 'ZXP.PUBLIC.JCL(CHKTS02)'
```

Press Enter.

Hint: Don't forget the single quotes around the dataset

10 GET ME OUT

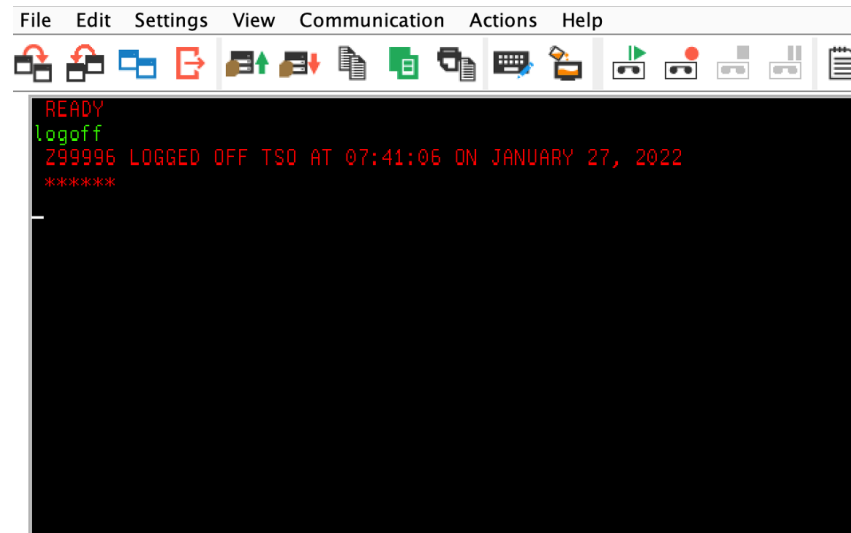


Use **F3** to exit ISPF or press F12 several times.

This will close your ISPF session and bring you back to the TS0 command prompt.

Simply type `logoff` followed by Enter to properly end your TS0 session.

11 SHOOT FOR THE ***



The screenshot shows a terminal window with a menu bar (File, Edit, Settings, View, Communication, Actions, Help) and a toolbar. The terminal output is as follows:

```
READY
logoff
Z999996 LOGGED OFF TSO AT 07:41:06 ON JANUARY 27, 2022
*****
```

After, you will see a confirmation of your userid being logged off.

You know you have successfully logged off when the session brings you back to the first logon screen as in Step 1.

Once you have returned to the main screen, you are free to exit the terminal.

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Nice job - let's recap	Next up ...
<p>Great, you have taken your first steps in the world of the terminal session. You successfully connected your workstation to the IBM Z Xplore system.</p> <p>You know how to use ISPF and how to work through the menu options.</p> <p>Make sure you always logoff properly from TS0 in order to not get into difficult when you want to connect again.</p>	<p>Let's repeat some Foundation VSCode exercises by using the terminal screen this time in the next TS0 challenge.</p>

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