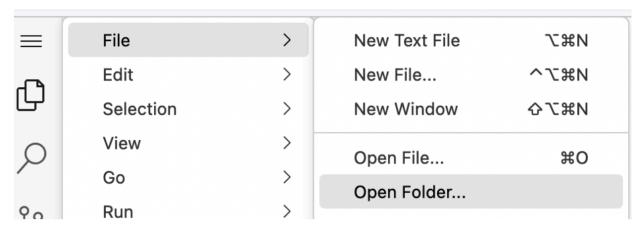
# **Test Challenge**

## Test the DOGGOS application

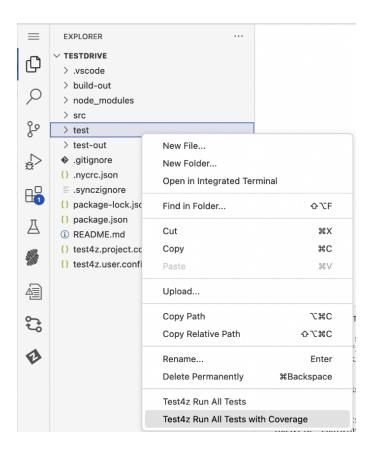
From the VS Code Explorer, Open the TestDrive Folder. Reference screenshots:





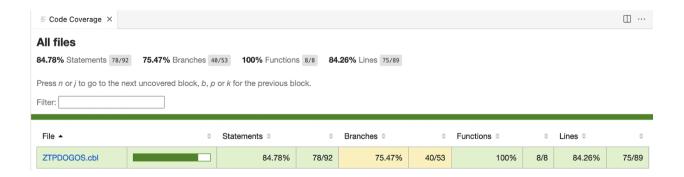
## **Generate Test coverage report**

Right click on the Test Folder and select "Test4z Run All Tests with Coverage". Reference screenshot:



This will generate the report.





From the Explorer tab, Open the src folder.

Open the source code file "ZTPDOGOS.cbl".

VSCode Coverage Gutters in the source code file are observed.



### **Edit a Test case**

Open the ZTTDOGWS.cbl file under test → data folder



Go to line number 196. Change the value from 9 to 900.

#### Reference screenshot:

```
display 'See workshop step 3.3 (#VALIDATEOUTREP)'

195

196

if OUTREP_SPY_WRITE_COUNT not = 900 then

197

perform failOutrepWriteCount

198

end-if
```

From the command line, run the "t4z" command. Reference screenshot:

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL EXPLORER FOR ENDEVOR

developer@ws-753461708474258-0:~/test4z/testdrive$ t4z
```

```
developer@ws-753461788474258-8:~/test4z/testdrives t4z
Test4z CLI version: 1.0.1870-develop
Executing Endevor Team Build on 10.1.2.55 to build and run tests...

FILL test/ZITDOGMS.cbl

X ZITDOGMS simple totals test (309 ms)
Invalid OUTREP count from ZITDOGMS
SYSOUT:
See workshop step 1.3 (#ADARECORDED)
See workshop step 1.1 (#MOCKADDPTS)
See workshop step 1.1 (#MOCKADDPTS)
See workshop step 1.1 and step 1.2 (#MEGISTERSPY)
THIS PROGRAM WILL TOTAL ADOPTED ZITPOGGS BY BREED
TODAY IS: 20230514
See workshop step 3.1 (#SPYCALLBACK)
See workshop step 3.1 (#SPYCALLBACK)
See workshop step 3.2 (#SPYMRUTE)
BREED SITHAM
See workshop step 3.1 (#SPYCALLBACK)
See workshop step 3.2 (#SPYMRUTE)
BREED CONGT
See workshop step 3.1 (#SPYCALLBACK)
See workshop step 3.2 (#SPYMRUTE)
BREED CHI
See workshop step 3.1 (#SPYCALLBACK)
See workshop step 3.2 (#SPYMRUTE)
BREED CHI
See workshop step 3.2 (#SPYMRUTE)
BREED CHI
See workshop step 3.1 (#SPYCALLBACK)
See workshop step 3.2 (#SPYMRUTE)
BREED CHI
See workshop step 3.1 (#SPYCALLBACK)
See workshop step 3.2 (#SPYMRUTE)
BREED POBLE
See workshop step 3.1 (#SPYCALLBACK)
See workshop step 3.1 (#SPYCALLBACK)
See workshop step 3.2 (#SPYMRUTE)
BREED POBLES
See workshop step 3.1 (#SPYCALLBACK)
See workshop step 3.2 (#SPYCALLBACK)
See workshop step 3.3 (#SPYCALLBACK)
See workshop step 3.5 (#SPYCALLBACK)
See w
```

You will observe that the test run is a failure. Expected Record count is 9 whereas we edited the value to be 900.

### Add statements to Test File

Open the ZTTDOGWS.cbl file under test → data folder

Go to line 51 (Be under the PROCEDURE DIVISION section). Reference Screenshot:

```
        ≡ ZTTDOGWS.cbl ×

test > ≡ ZTTDOGWS.cbl > <sup>1</sup>/<sub>22</sub> PROGRAM: ZTTDOGWS > <sup>1</sup>/<sub>22</sub> PROCEDURE DIVISION
               * KETERENCE TO ZIPDUGUS ACCUMULATOR RETRIVED VIA ZWS_GETVARIADLE.
 43
                1 ZTPDOGOS-ACCUMULATOR.
                     5 BREED-ADOPTIONS PIC 9(3) OCCURS 9 TIMES.
 44
 45
               * Reference to ZTPDOGOS record from ZWS_SpyQSAM callback.
 46
 47
               * (ADOPTED-REPORT-REC)
 48
                     COPY ZTPDGARR.
 49
                PROCEDURE DIVISION.
 50
 51
 52
 53
```

Move the cursor to column 12.

Type "t4z me".

Note: It will start filling out the intellisense.

Select "t4z Message write".

#### Reference Screenshots:

```
50
            PROCEDURE DIVISION.
51
52
                t4z me
53
                       t4z message write
54
           ********** Tt4z MockESDS file
                                                                  t4z mock ESDS file
55
           * Register Tt4z MockESDS file data
                                                     t4z mock ESDS file with file data
           ************* T t4z MockESDS file recorded da... t4z mock ESDS file with re...
56
57
                move | | t4z LLMockESDS file low-level t4z low-level mock file ES...
58
                t4z prepare module
                move | Tt4z MockKSDS file
59
                                                                 t4z mock KSDS file
60
                call Z Tt4z MockKSDS file data
                                                   t4z mock KSDS file with file data
61
                       t4z MockKSDS file with recorded d... t4z mock KSDS file wi...
62
           * Note: Tes Tt4z MockQSAM file
                                                                 t4z mock OSAM file
           * is prepar Tt4z MockQSAM file data
63
                                                   t4z mock QSAM file with file data
                       T4z MockQSAM file with recorded d... t4z mock QSAM file wi...
64
```

This will fill in the code for the user.

```
PROCEDURE DIVISION.

51

52

move low-values to I_Message in ZWS_Message

move 'Your message' to messageText in ZWS_Message

54

call ZTESTUT using ZWS_Message
```

Replace "Your Message" with "Hello Test4z" and save the file.

```
PROCEDURE DIVISION.

PROCEDURE DIVISION.

move low-values to I_Message in ZWS_Message

move 'Hello Test4z' to messageText in ZWS_Message

call ZTESTUT using ZWS_Message
```

Go to line number 196.

Change the value from 900 to 9.

Reference screenshot:

```
display 'See workshop step 3.3 (#VALIDATEOUTREP)'

195

196
    if OUTREP_SPY_WRITE_COUNT not = 9 then
        perform failOutrepWriteCount
198
end-if
```

From the command line, Run "t4z". Reference screenshot of command line output.

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL EXPLORER FOR ENDEVOR

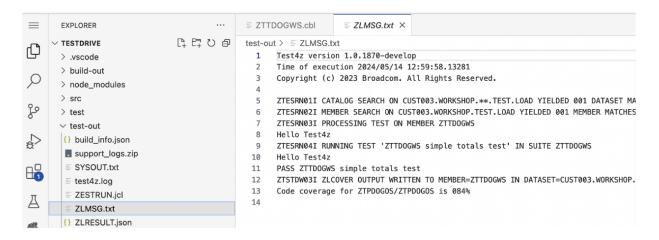
• developer@ws-753461708474258-0:~/test4z/testdrive$ t4z
Test4z CLI version: 1.0.1870-develop
Executing Endevor Team Build on 10.1.2.55 to build and run tests...

PASS test/ZTTDOGWS.cbl
/ ZTTDOGWS simple totals test (129 ms)

Tests Suites: 1 passed, 1 total
Tests: 1 passed, 1 total
Time: 0 s

Running tests completed successfully. For more details see files 'test-out/ZLMSG.txt' and 'test-out/SYSOUT.txt'.
```

Select "ZLMSG.txt" file from the "test-out" folder. This file contains the statements that are added to the test files. You will see the "Hello Test4z" statement that was added.



#### Conclusion

This demo scenario shows how to generate a test coverage report, edit a test case and add statements to a test file.