



## Code Navigation – Go To Symbol in Editor (or Workspace)

Use the command "Go To Symbol in Editor", "Go To Symbol in Editor by Category" or "Go To Symbol in Workspace"

```
#factorial
                                                                                            ≡ math.test.r
                   factorial grpglesrc\math.rpgle
                    test_factorial qtestsrc\math.test.rpgle
       gtestsrc > ≡
              **free
                                                                                            ctl-opt nomain;
مړ
             /include qrpgleref/math.rpgleinc
             /include qinclude, TESTCASE
             dcl-proc test factorial export;
dcl-pi *n extproc(*dclcase) end-pi;
        11
                  iEqual(1 : factorial(0))
        12
                  iEqual(1 : factorial(1));
                  iEqual(120 : factorial(5))
                  iEqual(2432902008176640000 : factorial(20));
             end-proc;
             dcl-proc test_fibonacci export;
                  dcl-pi *n extproc(*dclcase) end-pi;
                  iEqual(0 : fibonacci(0));
              ⊗ 0 ⚠ 0 👼 Project: rpg-utils 🕏 Live Share Spaces: 4 UTF-8 CRLF {} RPGLE 🐯
```

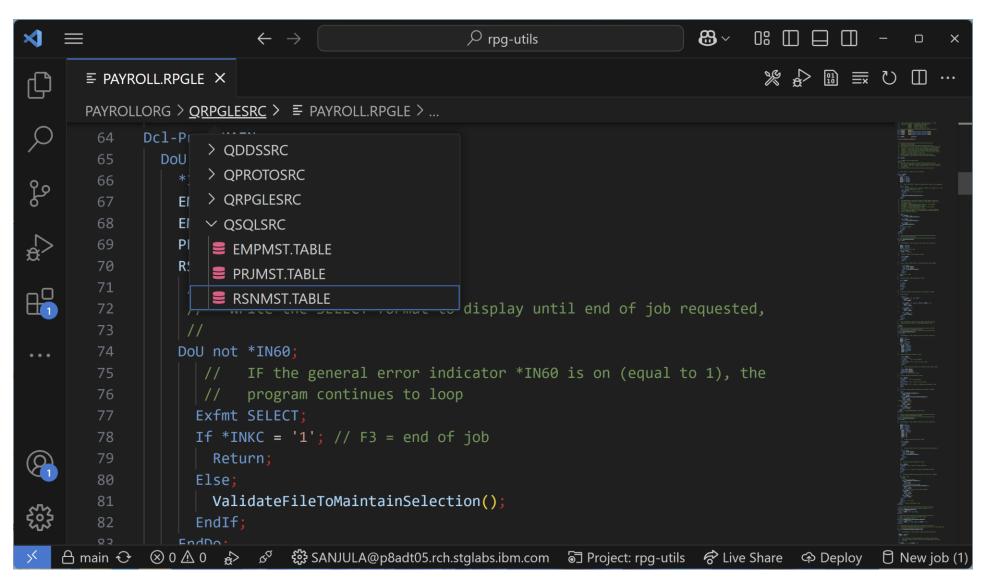
## **Code Navigation – Code Folding**

Works on procedures, prototypes, data structures, etc.

```
□ …
      ≡ vat300.rpgle X
      functionsVAT > ≡ vat300.rpgle > 分 ExistVATRate
       23 > Dcl-Proc GetVATRate export; ...
             End-Proc GetVATRate:
مړه
       31 > Dcl-Proc GetVATDesc export; ...
            End-Proc GetVATDesc;
       40 > Dcl-Proc ClcVAT export; ...
            End-Proc ClcVAT:
       53 > Dcl-Proc ExistVATRate export; ...
             Click to expand the range. CVATRate
       61 ∨ Dcl-Proc chainVATDEF:
       62 V Dcl-Pi chainVATDEF;
                P VATCODE
                                 Char(1)
                                                 value
              End-Pi;
       65 ∨ if not %open(VATDEF);
               open VATDEF;
       67 v endif;
       68 V if P_VATCODE <> VATCODE;
     P master ↔ ⊗ 0 🛆 0 🛈 1 🗟 Project: bob-recursive-example 🕏 Live Share
                                                                    UTF-8 CRLF {} RPGLE 🐯 🖏 🖔 1 🚨
```

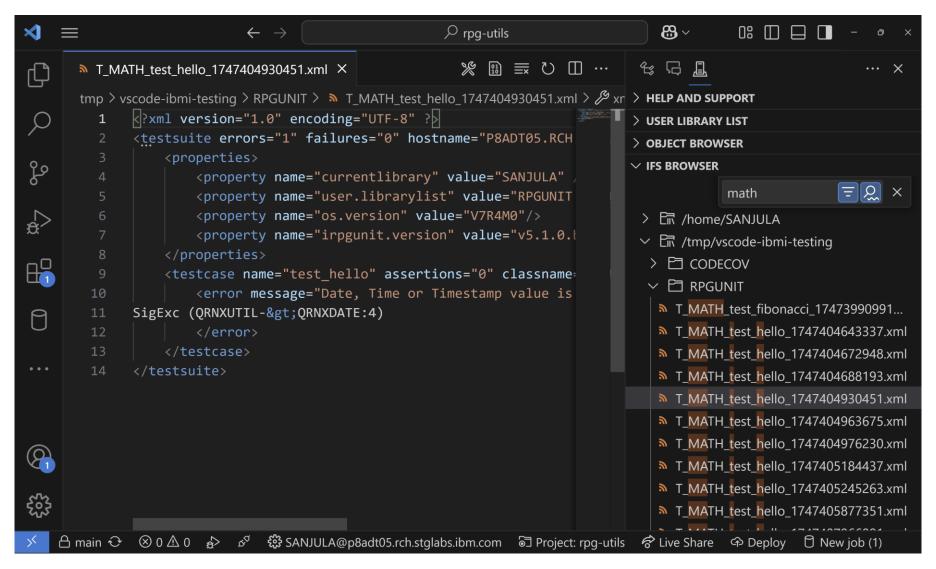
#### **Code Navigation – Breadcrumbs**

Works in local, QSYS, and IFS file systems!



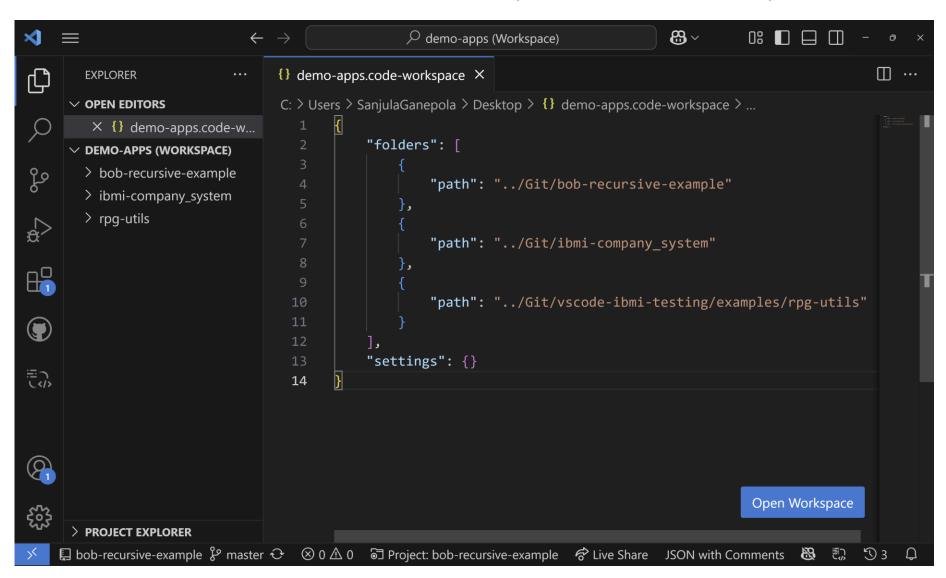
## **Code Navigation – Tree View Searching**

Use "Ctrl + Alt + f" in any view in VS Code (including the Object/IFS Browser!)



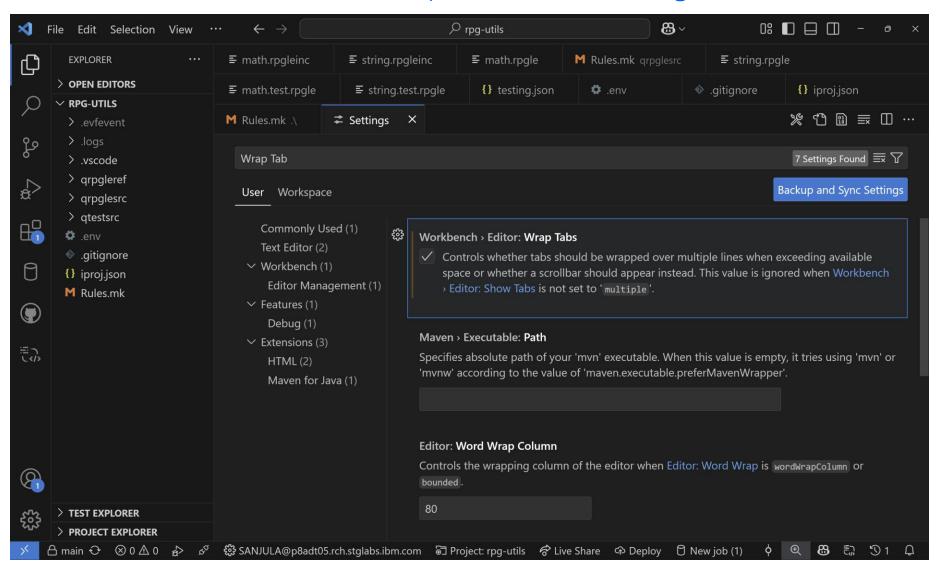
## **Code Navigation – Multi-root Workspaces**

Use the command "Add Folder to Workspace" and "Save Workspace As"



#### **Settings – Wrap Tabs**

#### Enable the "Wrap Tabs" VS Code setting



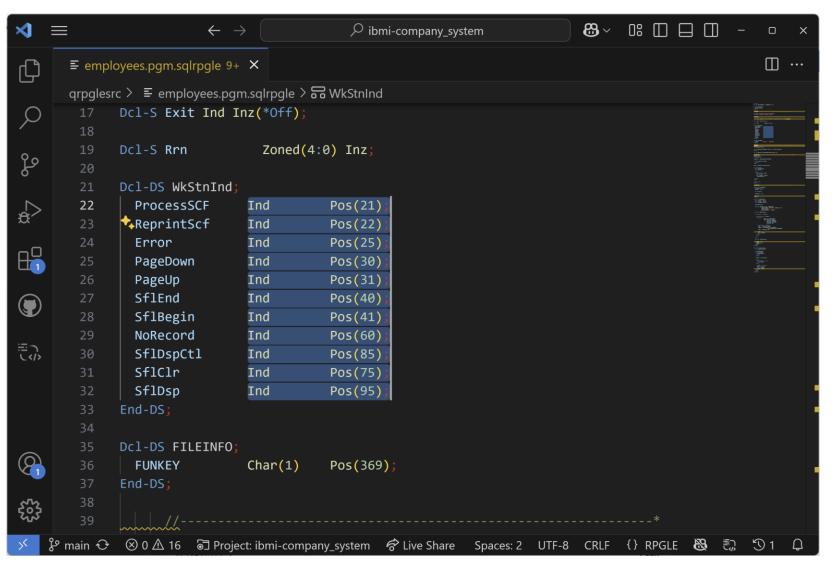
#### **Code Editing – Multi-cursor**

Manually add secondary cursors  $\rightarrow$  Alt + Click Keyboard shortcut  $\rightarrow$  Ctrl + Alt + Down or Ctrl + Alt + Up

```
th II ...
      functionsVAT > ≡ vat300.rpgle > ...
      23
            Dcl-Proc GetVATRate export
             Dcl-Pi GetVATRate Packed(4:2);
               P_VATCODE
                              Char(1)
                                            value
             End-Pi:
             chainVATDEF(P_VATCODE );
H
             return VATRATE:
            End-Proc GetVATRate:
33
E
            Dcl-Proc GetVATDesc export;
             Dcl-Pi GetVATDesc Char(20);
               P_VATCODE
                              Char(1)
                                            value
             End-Pi
             chainVATDEF(P_VATCODE );
             return VATDESC:
            End-Proc GetVATDesc
     master* ↔ ⊗ 0 🛦 0 🗟 Project: bob-recursive-example 🕏 Live Share
                                                              UTF-8 CRLF {} RPGLE 🐯 🖏 🖔 1 🚨
```

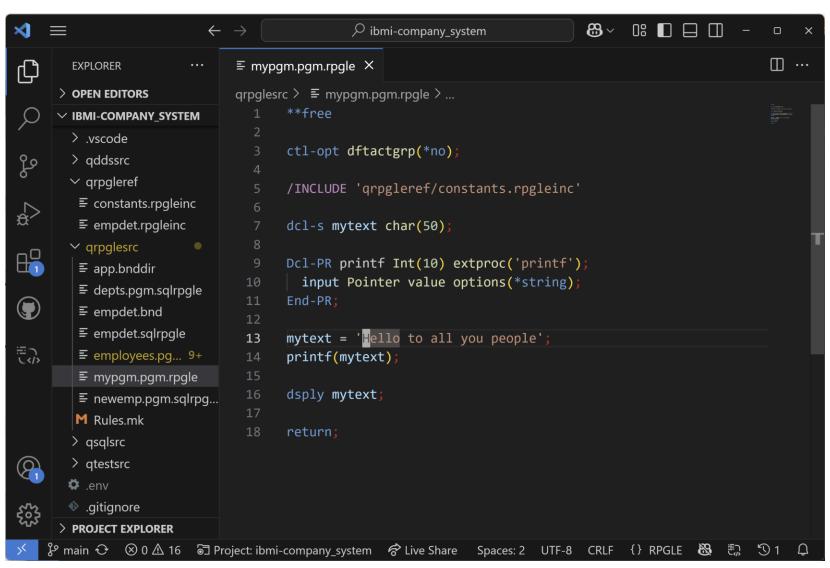
## **Code Editing – Column (box) selection**

Shift + Alt while dragging



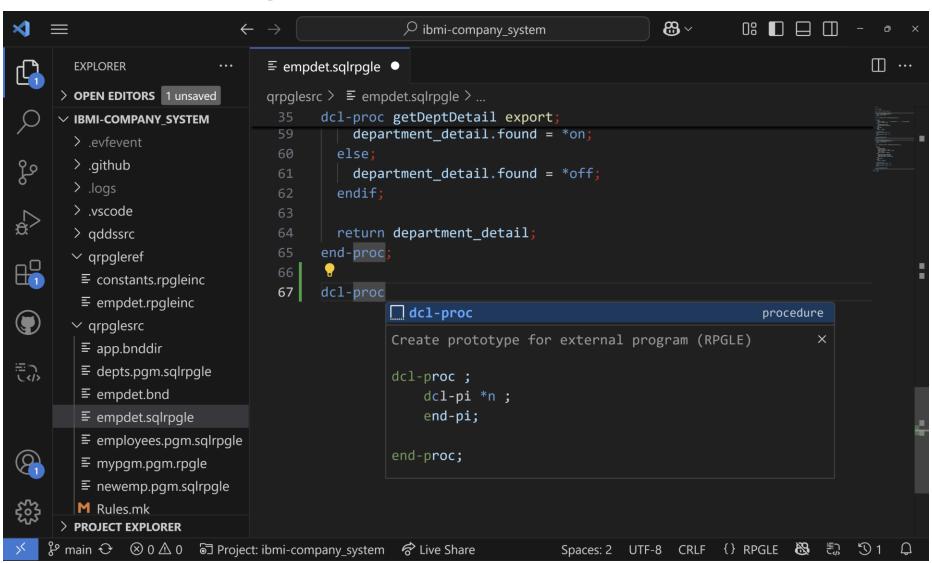
## **Code Editing – Overtype vs. Insert Mode**

Use the command "Toggle Overtype/Insert Mode"



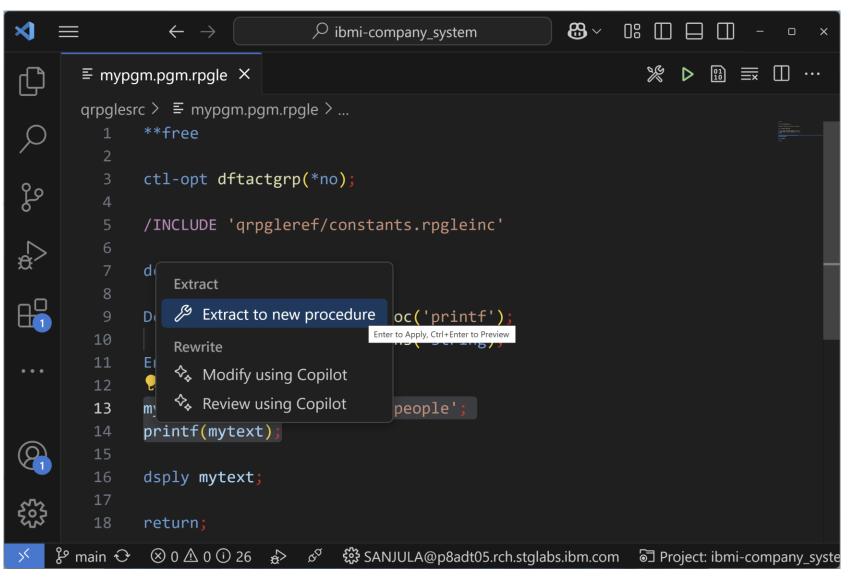
#### **Code Editing – Code Snippets**

Start typing the prefix for a snippet or use "Insert Snippet"



## **Code Editing – Code Actions (Extract to new procedure)**

#### Extract code into a procedure



## **Code Editing – Code Actions (Test Stub Generation)**

#### Generate RPGUnit test case or test suite

```
\leftarrow \rightarrow

    ≡ empdet.sqlrpgle M ×

  qrpglesrc > ≡ empdet.sqlrpgle > ♀ getEmployeeDetail
          dcl-proc getEmployeeDetail export;
            dcl-pi *n like(employee detail t)
              empno char(6) const;
            end-pi;
            dcl-ds employee_detail likeds(employee_detail_t)
              select
                rtrim(firstnme) || ' ' || rtrim(midinit) || ' ' || rtrim(lastname),
   16
                salary + bonus + comm
                                              Extract
               into
                                              Generate RPGUnit test case for 'getEmployeeDetail'
                 :employee_detail.name,
                 :employee_detail.netincome
                                              Generate RPGUnit test suite for 'empdet.sqlrpgle'
               from
                                              More Actions...
                 employee
                                              Run statement in Db2 for i
               where
                empno = :empno;
            if (sqlcode = 0);
              employee detail.found = *on;
              employee detail.found = *off;
            return employee_detail;
           end-proc;
likest/empdet*+ 👽 🛞 0 🛆 0 ① 375 🤛 & 🥸 SANJULA@p8adt05.rch.stglabs.ibm.com 🗟 Project: ibmi-company_system 🥱 Live S
```

## **Code Editing – Fill in Test Stub**

#### Fill in the test stub with inputs and expected results

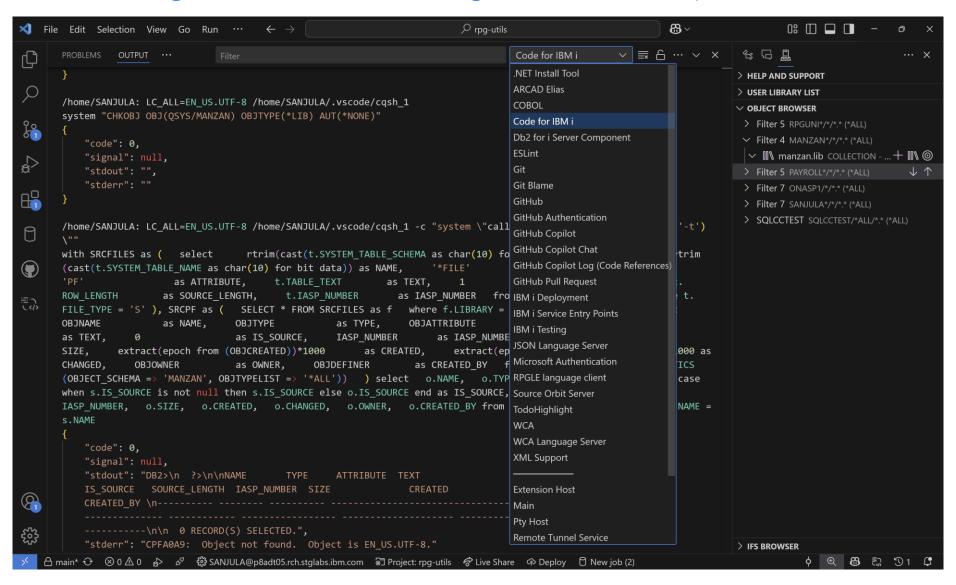
```
83 ∨ 08 □ □ □ − □ ×
                                     \leftarrow \rightarrow
                                                                           % Þ Ü ⊞ ☴ □ ···

    ≡ empdet.test.sqlrpgle A ×

  grpglesrc > ≡ empdet.test.sqlrpgle > ...
         /include 'qrpgleref/empdet.rpgleinc'
         /include qinclude, TESTCASE
         dcl-proc test_getemployeedetail export
           dcl-pi *n extproc(*dclcase) end-pi;
          dcl-s empno char(6);
          dcl-ds actual likeDS(employee detail t);
           dcl-ds expected likeDS(employee detail t);
           empno = ''';
           actual = getEmployeeDetail(empno);
           // Expected results
           expected.found = *off;
           expected.name = ''
           expected.netincome = 0;
          // Assertions
          nEqual(expected.found : actual.found : 'found');
          aEqual(expected.name : actual.name : 'name')
          assert(expected.netincome = actual.netincome : 'netincome')
        end-proc;
🞖 test/empdet*+ 👽 🛞 0 🗘 0 🛈 375 🤛 🔗 🥵 SANJULA@p8adt05.rch.stglabs.ibm.com 👼 Project: ibmi-company_system
```

#### **Extensions – Output Channels**

#### Diagnose extension issues using the extension's output channel



# Sanjula Ganepola - VS Code Features You Didn't Know Existed

Please take the last minute of this session to complete the evaluation. A direct link to the evaluation can be found using the QR code to the right.







