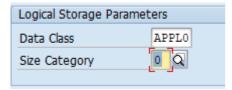
1. A database table with following structure: client, w_no, w_name, currency, curr code. ✓

SE11 Give name and Create Set Maintenance to not allowed Add the fields



Set parameters in technical settings:



set enhancement category to annot be enhanced under extras->enhancement category check and activate.

- 2. A program containing an internal table and code for populating the internal table.
 - 1. SE80
 - 2. Make program
 - 3. Type code

- 3. A program containing an internal table and retrieve of data from a database. ✓
 - 1. SE80
 - 2. Make program
 - 3. Type code -> SPFLI is the plane database

- 4. A program containing an internal table and print to screen.

- 1. SE80
- 2. Make Program
- 3. Type Code

```
TYPES: BEGIN OF ty_employee,
        employee_id TYPE n,
        first_name TYPE char10,
        last_name TYPE char10,
      END OF ty_employee.
DATA: lt_employees TYPE TABLE OF ty_employee,
     ls_employee TYPE ty_employee.
START-OF-SELECTION.
 ls_employee-employee_id = 1.
 ls employee-first name = 'John'.
 ls_employee-last_name = 'Doe'.
 APPEND ls_employee TO lt_employees.
 ls_employee-employee_id = 2.
 ls_employee-first_name = 'Jane'.
 ls employee-last name = 'Smith'.
 APPEND ls_employee TO lt_employees.
WRITE: / 'Employee ID', 'First Name', 'Last Name'.
LOOP AT lt_employees INTO ls_employee.
 WRITE: / ls_employee-employee_id,
         ls_employee-first_name,
         ls_employee-last_name.
ENDLOOP.
```

- 5. A function group for geometric figures with a function module for square calculation. ✓
 - 1. SE80
 - 2. make function module.
 - 3. Make function group.

In the function module: (use import and export to define the references.

Make a program:

In the program:

- 6. A program using function module and code for print to screen of the result. ✓
 - 1. make function module
 - 2. Make function group.

In the function module: (use import and export to define the references.

3. Make a program:

In the program:

- 7. A program using parameters and print to screen.
 - 1. SE80
 - 2. Make Program
 - 3. Type code

```
TYPES: BEGIN OF ty_employee,
```

```
employee_id TYPE n,
         first_name TYPE char10,
         last_name TYPE char10,
       END OF ty employee.
DATA: lt_employees TYPE TABLE OF ty_employee,
      ls_employee TYPE ty_employee.
PARAMETERS: p_emp_id TYPE n,
            p_fname TYPE char10,
            p lname TYPE char10.
START-OF-SELECTION.
  ls_employee-employee_id = p_emp_id.
 ls_employee-first_name = p_fname.
 ls employee-last name = p lname.
  APPEND ls_employee TO lt_employees.
  LOOP AT 1t employees INTO 1s employee.
   WRITE: / ls_employee-employee id,
            ls_employee-first_name,
            ls_employee-last_name.
  ENDLOOP.
```

- 8. A program using modularization "Include" for calculation of the area of a circle and print the result to screen. ✓
 - 1. SE80
 - 2. Make Program
 - 3. Type Code

Make program to be included:

```
REPORT ZY_99_TOBEINCLUDED.

DATA: area TYPE DECFLOAT16,
    pi TYPE DECFLOAT16.

pi = '3.14'.

PARAMETERS: radius TYPE n.

area = pi * radius * radius.

WRITE: area.
```

4. Make a new program and include the one from before:

```
INCLUDE zy_99_tobeincluded.
```

- 9. A program using modularization "Subroutine" for calculation of the area of a circle and print the result to screen. ✓
 - 1. Make a program
 - 2. Right click on the program and add subroutine.
 - 3. Make the code look like this

10. A program using a dynpro screen.

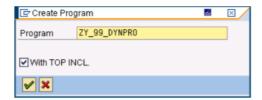
Tools • ABAP Workbench • Overview • Object Navigator

Menu path

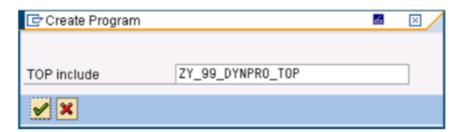
You may also use the transaction code SE80 for direct access.

Create a new program called 'ZY_##_DYNPRO'. Please use 'TOP INCLUDE'.

TOP INCL



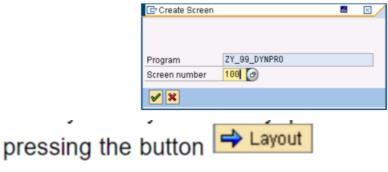
Modify the name of your top include to 'ZY_##_DYNPRO_TOP'.



Select the status 'T Test Program'

The next step concerns the creation of the first Dynpro. Right click on your program name in the navigation tree and create a new Dynpro (screen) with the screen number 100.

Create dynpro



(MAKE THE SCREEN YOU WANT NOW)

11. A program using an ALV-list. 🗸

Make a program -> and write this code.

```
DATA: it_spfli TYPE TABLE OF spfli.

SELECT * FROM spfli INTO TABLE it_spfli.

CALL FUNCTION 'REUSE_ALV_GRID_DISPLAY'

EXPORTING

i_structure_name = 'SPFLI'

TABLES

t_outtab = it_spfli.
```

12. A program using a global class 🔽

zcl_customers already exist so we just use it.

```
DATA: customers_obj TYPE REF TO zcl_customers.

START-OF-SELECTION.

CREATE OBJECT customers_obj TYPE zcl_customers.

" Create a new customer
customers_obj->create_cust(
    p_id = '12345'
    p_name = 'John Smith'
).

" Delete a customer
customers_obj->delete_cust(
    p_id = '12345'
).
```

13. A program using a local class.

Copy paste the definition and the implementation from the global class and add them as a local class. (Dropdown->classes->ZCL CUSTOMERS->code->copy this.

Change it a bit so everything is public.

```
DATA: customers_obj TYPE REF TO zcl_customers.

START-OF-SELECTION.
```

```
CREATE OBJECT customers obj TYPE zcl customers.
 " Create a new customer
 customers obj->create cust(
  p id = '12345'
  p_name = 'John Smith'
 ).
 " Delete a customer
 customers_obj->delete_cust(
   p_{id} = '12345'
 ).
*&-----
*& Class LCD ADD
*&
CLASS lcd add DEFINITION.
 public section.
  class-methods CREATE_CUST
    importing
      !P_ID type ZCUSTOMERS-ID
      !P_NAME type ZCUSTOMERS-F_NAME.
   class-methods DELETE_CUST
    importing !P_ID type ZCUSTOMERS-ID.
   class-data ZCUSTOMERS_WA type ZCUSTOMERS.
ENDCLASS.
*&_____
*& Class (Implementation) LCI_add
*&
*&-----
CLASS lcd_add IMPLEMENTATION.
* | Static Public Method ZCL_CUSTOMERS=>CREATE_CUST
* | [--->] P_ID
TYPE
                                          ZCUSTOMERS-F NAME
```