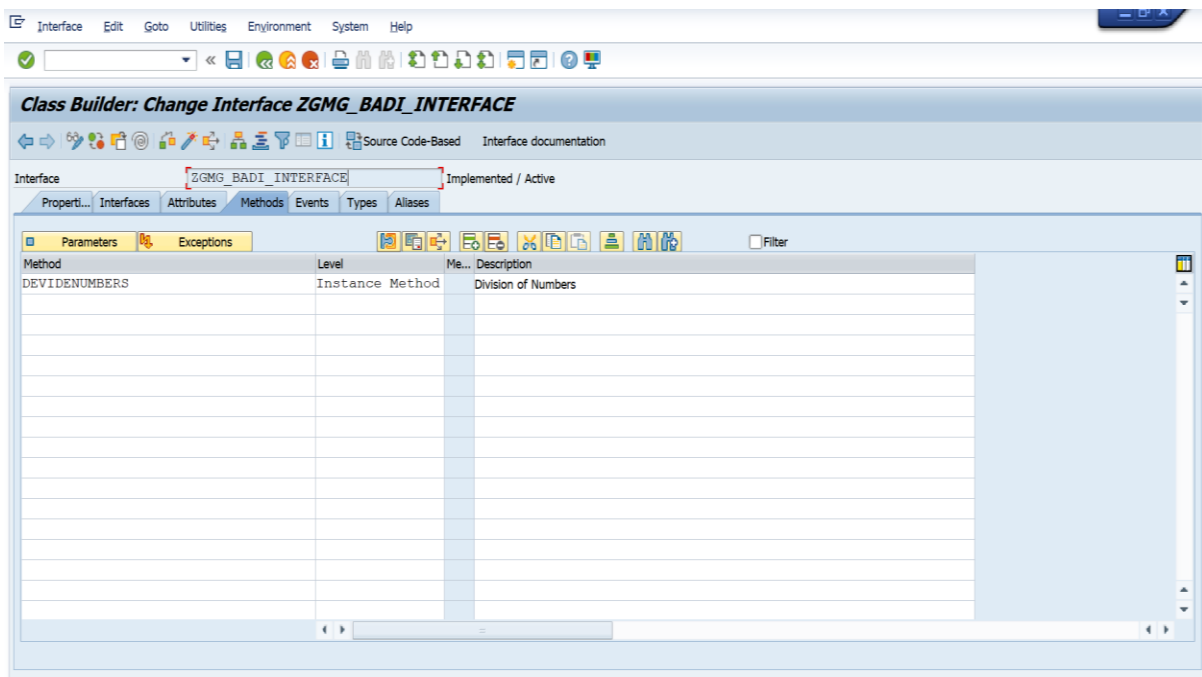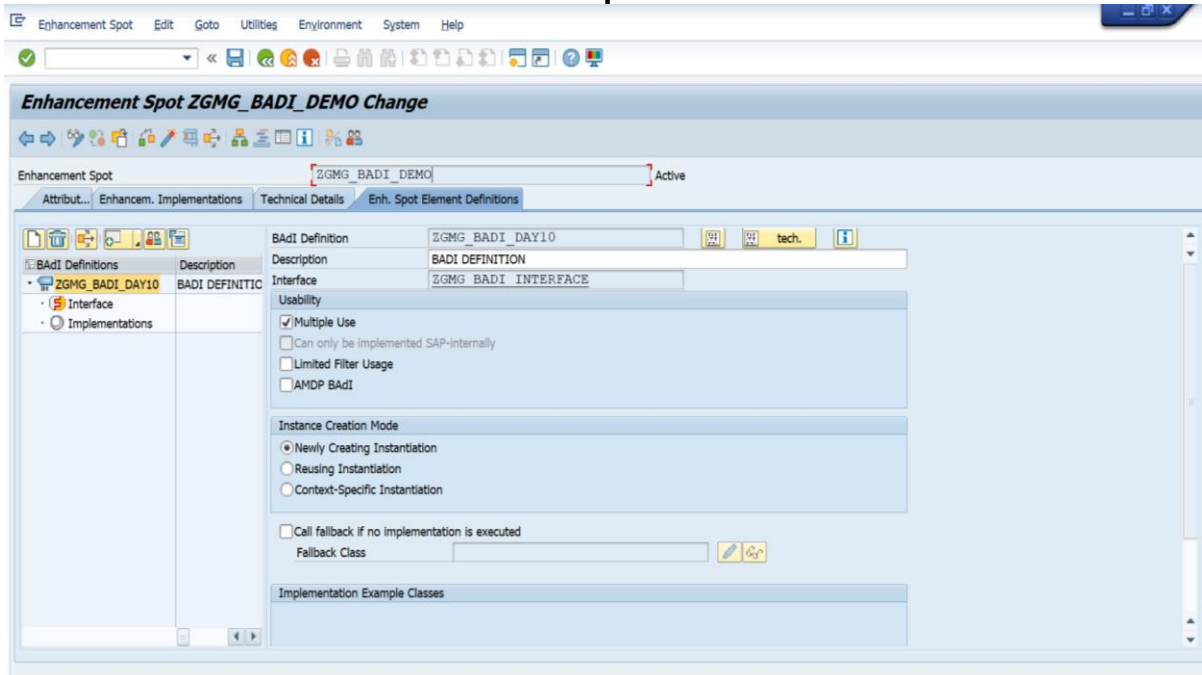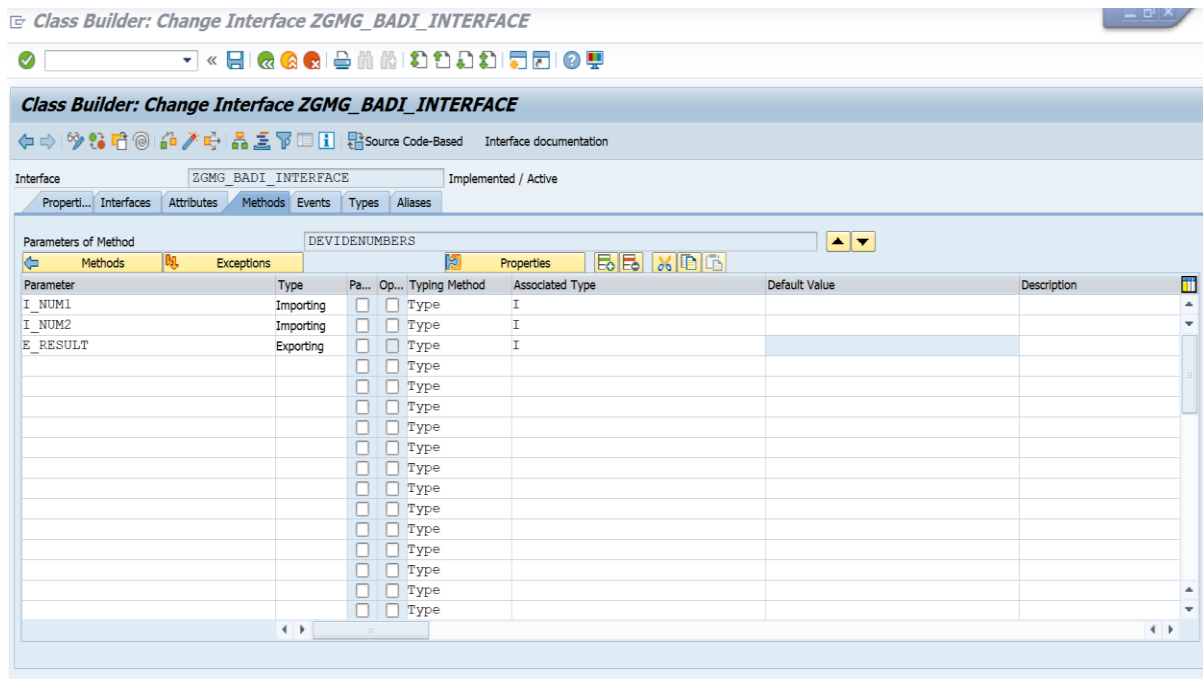# Day - 10
Emp Id : 46255425
Name : Gyanachand Padhy

Assignment 3 – Business Add in (BADI)-Single Use

Hint:

1. **SE18 should be used to define a BADI**
2. **SE19 should be used to implement the BADI Definition.**

Class Builder: Change Interface ZGMG_BADI_INTERFACE

Source Code-Based   Interface documentation

| Interface | ZGMG_BADI_INTERFACE | Implemented / Active |

Properti... Interfaces Attributes Methods Events Types Aliases

Parameters of Method   DEVIDENUMBERS

Methods   Exceptions   Properties

Parameter	Type	Pa...	Op...	Typing Method	Associated Type	Default Value	Description
I_NUM1	Importing	☐	☐	Type	I		
I_NUM2	Importing	☐	☐	Type	I		
E_RESULT	Exporting	☐	☐	Type	I		
		☐	☐	Type			
		☐	☐	Type			
		☐	☐	Type			
		☐	☐	Type			
		☐	☐	Type			
		☐	☐	Type			
		☐	☐	Type			
		☐	☐	Type			
		☐	☐	Type			
		☐	☐	Type			
		☐	☐	Type			
		☐	☐	Type			

```
REPORT ZGMG_DEMO_BADI.

PARAMETERS: NUM1 TYPE I,
            NUM2 TYPE I.
DATA RES TYPE I.
DATA OBJ TYPE REF TO ZBADI_DEMO_132_INT.

CALL METHOD CL_EXITHANDLER=>get_instance
 EXPORTING
   exit_name          = 'ZBADI_DEMO_132_INT'
 CHANGING
   instance           =  OBJ
 .
IF sy-subrc <> 0.
 MESSAGE 'Error while calling method' TYPE 'I'.
ENDIF.
*CALL METHOD OBJ->divide
*  EXPORTING
*   i_num1     = NUM1
*   i_num2     = NUM2
*  IMPORTING
*   e_result   = RES
*  EXCEPTIONS
*   div_by_null = 1
*  .
CALL METHOD OBJ->DIVIDENUMBERS
 EXPORTING
   I_NUM1   = NUM1
   I_NUM2   = NUM2
 IMPORTING
   E_RESULT  = RES
```

```
  EXCEPTIONS
    NULLVALUE = 1
    OTHERS   = 2
    .
IF SY-SUBRC <> 0.
 MESSAGE ID SY-MSGID TYPE SY-MSGTY NUMBER SY-MSGNO
        WITH SY-MSGV1 SY-MSGV2 SY-MSGV3 SY-MSGV4.
ENDIF.
IF sy-subrc = 1.
  MESSAGE 'Division by zero' TYPE 'I'.
ELSE.
   WRITE:/ 'NUM 1 IS : ' , NUM1.
   WRITE:/ 'NUM 2 IS : ' , NUM2.
   WRITE:/ 'RESULT IS : ' , RES.
ENDIF.
```

Division of two numbers

```
Division of two numbers
_____

NUM 1 IS :        10.000
NUM 2 IS :         5.000
RESULT IS :             2
```

Assignment 4 – Business Add in (BADI)-Multiple Use

Hint:

1. **SE18 should be used to define a BADI**
2. **SE19 should be used to implement the BADI Definition.**

Definition Short Text				BADI for Booking Data & Email ID

Properti...	Interface	FCodes	Subscreens

Interface name		ZIF_EX_541_BADI

Method	Description
GET_FLIGHT_DETAILS	To fetch flight details
GET_URL	To get URL

Properti...	Interfaces	Attributes	Methods	Events	Types	Aliases

Parameters of Method   GET_URL

Methods		Exceptions				Properties	

Parameter	Type	Pa...	Op...	Typing Method	Associated Type
CAR_NUM	Importing	☐	☐	Type	S_CARR_ID
URL	Exporting	☐	☐	Type	S_CARRURL
		☐	☐	Type	
		☐	☐	Type	

PROGRAM:

```
REPORT ZGMG_BADI_Q4.

DATA L_INF TYPE REF TO Z215_IF_DAY10_Q4.        "Reference variable to the Interface

PARAMETERS: P_CARRID TYPE S_CARR_ID,            "Parameters for carrier number
& Flight number
        P_CONNID TYPE S_CONN_ID.

DATA: IT_SFLIGHT TYPE TABLE OF ZGMG_BADI_TT.    "Internal table for structure

CALL METHOD CL_EXITHANDLER=>GET_INSTANCE        "Calling Function module fo
r the execution
EXPORTING
    EXIT_NAME            = 'ZGMG_BADI_Q4'       "BADI Definition
CHANGING
    INSTANCE             = L_INF                "Interface instance
EXCEPTIONS
    NO_REFERENCE                    = 1
    NO_INTERFACE_REFERENCE          = 2
    NO_EXIT_INTERFACE               = 3
    CLASS_NOT_IMPLEMENT_INTERFACE   = 4
    SINGLE_EXIT_MULTIPLY_ACTIVE     = 5
    CAST_ERROR                      = 6
    EXIT_NOT_EXISTING               = 7
```

```abap
    DATA_INCONS_IN_EXIT_MANAGEM  = 8
OTHERS                 = 9
.
IF SY-SUBRC <> 0.
ENDIF.

L_INF-
>GET_FLIGHT_DETAILS(                                "Calling method for getting flight details using
 interface reference
EXPORTING
  CAR_NUM     =  P_CARRID  " Carrier Name
  FLIGHT_NUM    =  P_CONNID  " Flight Number
IMPORTING
  FLIGHT_DETAILS =  IT_SFLIGHT " Table type for filght details - 538
EXCEPTIONS
OTHERS       = 2
).
IF SY-SUBRC <> 0.
MESSAGE 'DATA NOT PROCESSED' TYPE 'E'.
ENDIF.

CL_DEMO_OUTPUT=>DISPLAY(                                "To display the table
EXPORTING
DATA =  IT_SFLIGHT   " Text or Data
  NAME =  'Flight details'
).

L_INF->GET_URL(                                "Calling method to get url for given carrid
EXPORTING
  CAR_NUM =  P_CARRID   " Carrier Name
IMPORTING
  URL     =  DATA(URL)  " Airline URL
).

WRITE: 'URL IS:',URL COLOR 5.
```


BADI WRAPPER PROGRAM

| P_CARRID | AA |
| P_CONNID | 10 |

Output

Flight details

CARRID	CONNID	FLDATE	PRICE	CURRENCY	PLANETYPE	SEATSMAX
AA	0000	0000-00-00	0.0			0
AA	0000	2021-11-04	0.0			0

BADI WRAPPER PROGRAM

BADI WRAPPER PROGRAM

URL IS:
http://www.aa.com