

Logical Expression

1. AND

```
COUNTER GE 0
```

2. OR

3. NOT

```
COUNTER GT 0 AND  
FLAG IS INITIAL
```

```
( FLAG1 NE SPACE OR FLAG2  
NE SPACE ) AND COUNTER  
BETWEEN 0 AND 100
```

```
COUNTER EQ 0 AND NOT  
( FLAG1 EQ SPACE AND FLAG2  
EQ SPACE )
```

IF Statement

```
IF <logical expression>.  
    statements  
ENDIF.
```

```
IF <logical expression>.  
    statements  
ELSE.  
    statements  
ENDIF.
```

```
IF <logical expression>.  
    statements  
ELSEIF <logical expression>.  
    statements  
ELSEIF <logical expression>.  
    statements  
ELSE.  
    statements  
ENDIF.
```

CASE statement

- **Execute different statement blocks depending on the contents of particular data fields**
- **WHEN OTHERS:**
 - **contents of <field> does not equal to any of the <value?> contents**

```
CASE <field>.  
  WHEN <value1>.  
    statements  
  WHEN <value2>.  
    statements  
  WHEN <value3>.  
    statements  
  WHEN OTHERS.  
    statements  
ENDCASE .
```

CHECK statement

CHECK <logical expression>.

1

CHECK within a loop structure.

- Within Loop:
to terminate loop
pass conditionally

```
WHILE COUNTER GT 0.  
    statements  
    CHECK FLAG NE SPACE.  
    statements  
ENDWHILE.
```

2

CHECK outside loop structures.

```
statements  
CHECK <condition>.  
statements
```

ABAP statement and Keyword(con't)

- Terminate loop entirely without any condition
- Terminate a subroutine without any condition

EXIT.

1

EXIT within a loop structure.

```
DO ... statements  
      IF COUNTER GE 100.  
            EXIT.  
      ENDIF.  
      statements  
ENDDO.
```

2

EXIT outside loop structure.

```
statements  
IF ...  
      EXIT.  
ENDIF statements
```

ABAP statement and Keyword(con't)

- Terminate loop pass immediately without any condition

CONTINUE.

```
DO 100 TIMES.  
    statements  
    IF SY-INDEX GE 10  
        AND SY-INDEX LE 20.
```

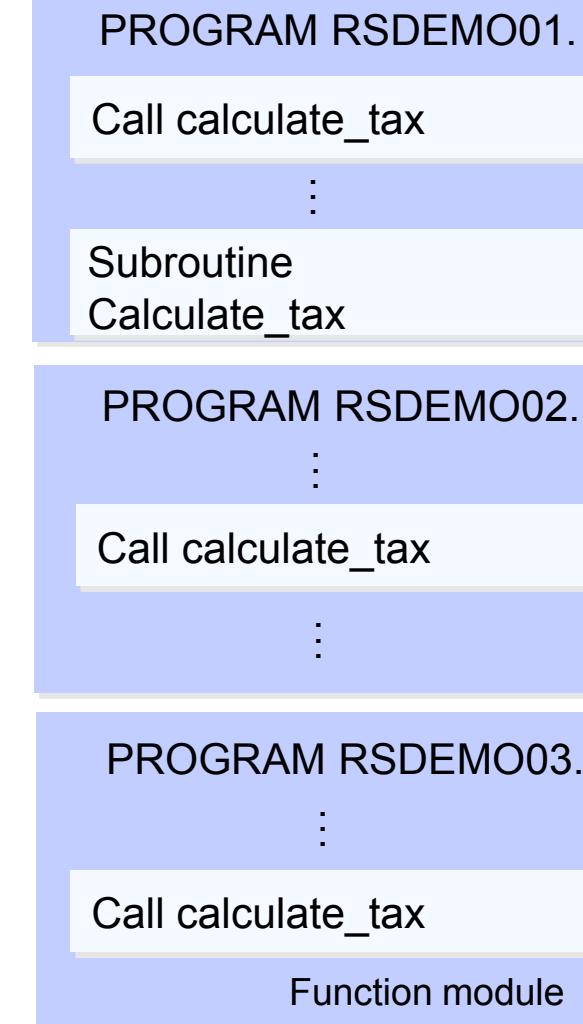
CONTINUE.

ENDIF.

statements

ENDDO.

ABAP statement and Keyword(con't)



- Avoid redundancy
- Modularization:
 - easy to read
 - easy to call

PROGRAM RSDEMO04.

Subroutine SUB1

Subroutine Calculate_tax

ABAP/4 function library

Function module Calculate_tax



- **Define**

***FORM <name> [<parameters>].
 <statement block>***

ENDFORM.

- **Calling internally**

PERFORM <name> [<parameters>].

- **Calling external subroutine**

***PERFORM <name>(program name) <parameters>
 [IF FOUND]***

ABAP statement and Keyword(con't)

```
form f_check_file_exists using filename.
```

```
.....  
endform.
```

Parameters:

```
p_path like rlgrap-filename.
```

```
.....  
perform f_check_file_exists using p_path.
```

□ Introduction R/3 Basis system overview

□ ABAP/4 overview

Component, Program, ABAP dictionary, Function Module ,
Message/Transaction code, etc.

□ Common Statement / Command

- Main event in ABAP program
- General ABAP command

□ Transportation for ABAP objects

□ Type of problem and how to investigate

Program bug, ABAP runtime error, Update terminate, Unexpected
error message.