

PL/SQL - GOTO STATEMENT

http://www.tutorialspoint.com/plsql/plsql_goto_statement.htm

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A **GOTO** statement in PL/SQL programming language provides an unconditional jump from the GOTO to a labeled statement in the same subprogram.

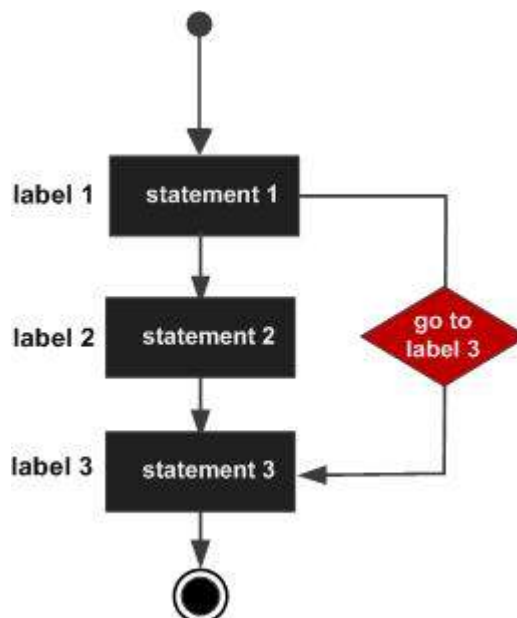
NOTE: Use of GOTO statement is highly discouraged in any programming language because it makes difficult to trace the control flow of a program, making the program hard to understand and hard to modify. Any program that uses a GOTO can be rewritten so that it doesn't need the GOTO.

Syntax:

The syntax for a GOTO statement in PL/SQL is as follows:

```
GOTO label;  
..  
..  
<< label >>  
statement;
```

Flow Diagram:



Example:

```
DECLARE
    a number(2) := 10;
BEGIN
    <<loopstart>>
    -- while loop execution
    WHILE a < 20 LOOP
        dbms_output.put_line ('value of a: ' || a);
        a := a + 1;
        IF a = 15 THEN
            a := a + 1;
            GOTO loopstart;
        END IF;
    END LOOP;
END;
```

When the above code is executed at SQL prompt, it produces the following result:

```
value of a: 10
```

```
value of a: 11  
value of a: 12  
value of a: 13  
value of a: 14  
value of a: 16  
value of a: 17  
value of a: 18  
value of a: 19
```

PL/SQL procedure successfully completed.

Restrictions with GOTO Statement

GOTO Statement in PL/SQL imposes the following restrictions:

- A GOTO statement cannot branch into an IF statement, CASE statement, LOOP statement or sub-block.
- A GOTO statement cannot branch from one IF statement clause to another or from one CASE statement WHEN clause to another.
- A GOTO statement cannot branch from an outer block into a sub-block
that is, an inner BEGIN – END block.
- A GOTO statement cannot branch out of a subprogram. To end a subprogram early, either use the RETURN statement or have GOTO branch to a place right before the end of the subprogram.
- A GOTO statement cannot branch from an exception handler back into the current BEGIN-END block. However, a GOTO statement can branch from an exception handler into an enclosing block.

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