**Program 1**

**(Using if else statement)**

DECLARE n\_counter NUMBER := 0;

BEGIN

LOOP

n\_counter := n\_counter + 1;

DBMS\_OUTPUT.PUT\_LINE(n\_counter);

IF n\_counter = 10 THEN

EXIT;

END IF;

END LOOP;

END;

/

**Output:-**

1

2

3

4

5

6

7

8

9

10

Statement processed.

**Prgram 2**

**(Loop Control)**

DECLARE

n\_i NUMBER := 0;

n\_j NUMBER := 0;

BEGIN

<< outer\_loop >>

LOOP

n\_i := n\_i + 1;

EXIT WHEN n\_i = 2;

<< inner\_loop >>

LOOP

n\_j := n\_j + 1;

EXIT WHEN n\_j = 5;

DBMS\_OUTPUT.PUT\_LINE('Outer loop counter ' || n\_i);

DBMS\_OUTPUT.PUT\_LINE('Inner loop counter ' || n\_j);

END LOOP inner\_loop;

END LOOP outer\_loop;

END;

/

**Output:-**

Outer loop counter 1

Inner loop counter 1

Outer loop counter 1

Inner loop counter 2

Outer loop counter 1

Inner loop counter 3

Outer loop counter 1

Inner loop counter 4

Statement processed.

**Program 3**

**(calculate  factorial of 10 by using PL/SQL WHILE LOOP**

**statement.)**

DECLARE

n\_counter NUMBER := 10;

n\_factorial NUMBER := 1;

n\_temp NUMBER;

BEGIN

n\_temp := n\_counter;

WHILE n\_counter > 0

LOOP

n\_factorial := n\_factorial \* n\_counter;

n\_counter := n\_counter - 1;

END LOOP;

DBMS\_OUTPUT.PUT\_LINE('factorial of ' || n\_temp ||

' is ' || n\_factorial);

END;

/

**Output:-**

factorial of 10 is 3628800

Statement processed.

**Program 4**

(**PRINT integers from 1 to 10 by using PL/SQL FOR loop as the code)**

DECLARE

n\_times NUMBER := 10;

BEGIN

FOR n\_i IN 1..n\_times LOOP

DBMS\_OUTPUT.PUT\_LINE(n\_i);

END LOOP;

END;

/

**Output:-**

1

2

3

4

5

6

7

8

9

10

Statement processed.

**Program 5**

**( PRINT integers from 1 to 10 by using PL/SQL FOR loop IN REVERSE ORDER)**

DECLARE

n\_times NUMBER := 10;

BEGIN

FOR n\_i IN REVERSE 1..n\_times LOOP

DBMS\_OUTPUT.PUT\_LINE(n\_i);

END LOOP;

END;

/

**Output:-**

10

9

8

7

6

5

4

3

2

1

Statement processed.

**Program 6**

**(CREATE A FUNCTION USING PL/SQL)**

CREATE OR REPLACE FUNCTION try\_parse(

iv\_number IN VARCHAR2)

RETURN NUMBER IS

BEGIN

RETURN TO\_NUMBER(iv\_number);

EXCEPTION

WHEN OTHERS THEN

RETURN NULL;

END;

/

**Output:-**

Function created.

| http://127.0.0.1:8080/i/htmldb/builder/rollup_plus_dgray.gifDBMS Output |
| --- |
|  |

**Program 7**

**(PROGRAM TO PRINT THE VALUES AFTER CREATING FUNCTIONS)**

DECLARE

n\_x NUMBER;

n\_y NUMBER;

n\_z NUMBER;

BEGIN

n\_x := try\_parse('574');

n\_y := try\_parse('12.21');

n\_z := try\_parse('abcd');

DBMS\_OUTPUT.PUT\_LINE(n\_x);

DBMS\_OUTPUT.PUT\_LINE(n\_y);

DBMS\_OUTPUT.PUT\_LINE(n\_z);

END;

/

**Output:-**

574

12.21

Statement processed.