

# PL/SQL - DBMS OUTPUT

[http://www.tutorialspoint.com/plsql/plsql\\_dbms\\_output.htm](http://www.tutorialspoint.com/plsql/plsql_dbms_output.htm)

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The **DBMS\_OUTPUT** is a built-in package that enables you to display output, display debugging information, and send messages from PL/SQL blocks, subprograms, packages, and triggers. We have already used this package all throughout our tutorial.

Let us look at a small code snippet that would display all the user tables in the database. Try it in your database to list down all the table names:

```
BEGIN
  dbms_output.put_line (user || ' Tables in the database:');
  FOR t IN (SELECT table_name FROM user_tables)
  LOOP
    dbms_output.put_line(t.table_name);
  END LOOP;
END;
/
```

## DBMS\_OUTPUT Subprograms

The DBMS\_OUTPUT package has the following subprograms:

S.N	Subprogram & Purpose
1	<b>DBMS_OUTPUT.DISABLE;</b> Disables message output
2	<b>DBMS_OUTPUT.ENABLE(buffer_size IN INTEGER DEFAULT 20000);</b> Enables message output. A NULL value of buffer_size represents unlimited buffer size.
3	<b>DBMS_OUTPUT.GET_LINE (line OUT VARCHAR2, status OUT INTEGER);</b> Retrieves a single line of buffered information.
4	<b>DBMS_OUTPUT.GET_LINES (lines OUT CHARARR, numlines IN OUT INTEGER);</b> Retrieves an array of lines from the buffer.
5	<b>DBMS_OUTPUT.NEW_LINE;</b> Puts an end-of-line marker
6	<b>DBMS_OUTPUT.PUT(item IN VARCHAR2);</b> Places a partial line in the buffer.
7	<b>DBMS_OUTPUT.PUT_LINE(item IN VARCHAR2);</b> Places a line in the buffer.

## Example:

```
DECLARE
  lines dbms_output.chararr;
  num_lines number;
BEGIN
  -- enable the buffer with default size 20000
  dbms_output.enable;

  dbms_output.put_line('Hello Reader!');
  dbms_output.put_line('Hope you have enjoyed the tutorials!');
  dbms_output.put_line('Have a great time exploring pl/sql!');

  num_lines := 3;
```

```
dbms_output.get_lines(lines, num_lines);

FOR i IN 1..num_lines LOOP
    dbms_output.put_line(lines(i));
END LOOP;
END;
/
```

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

```
Hello Reader!
Hope you have enjoyed the tutorials!
Have a great time exploring pl/sql!

PL/SQL procedure successfully completed.
```