

SQL Plus

Enter user-name: system
Enter password:
Last Successful login time: Mon Sep 01 2025 15:01:55 +05:30

Connected to:
Oracle Database 21c Express Edition Release 21.0.0.0.0 - Production
Version 21.3.0.0.0

```
SQL> create or replace function
 2 factorial(n in number) return
 3 number is
 4 begin
 5 if n<0 then
 6 return null;
 7 elsif n=0 then
 8 return 1;
 9 else
10 return n * factorial(n-1);
11 end if;
12 end;
13 /
```

Function created.

```
SQL> declare
 2 input_number number;
 3 result number;
 4 begin
 5 input_number:=&enter_a_number;
 6 result:= factorial(input_number);
 7 if result is not null then
 8 dbms_output.put_line('THE FACTORIAL OF'|| input_number||'is'|| result);
 9 else
10 dbms_output.put_line('invalid input:factorial is not defined for negative
11
12 numbers.');
```

```
13 end if;
14 end;
15 /
Enter value for enter_a_number: 3
old 5: input_number:=&enter_a_number;
new 5: input_number:=3;
```

PL/SQL procedure successfully completed.