

```
SQL Plus
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 numbers. ');
12 end if;
13 end;
14 end;
15 /

Enter value for enter_a_number: 20
old 5: input_number:=&enter_a_number;
new 5: input_number:=20;
THE FACTORIAL OF20is2432902008176640000

PL/SQL procedure successfully completed.

SQL> |
```