FUNCTIONS:-

```
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Enter user-name: system
Enter password:
Last Successful login time: Tue Aug 26 2025 12:03:50 +05:30

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

SQL> SET SERVEROUTPUT ON;
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: 7
old   5: input_number:=&enter_a_number;
new   5: input_number:=7;
THE FACTORIAL OF7is5040

PL/SQL procedure successfully completed.

SQL>
```