Exp-12

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| **Ex.No.: 12** | | **PL SQL PROGRAMS** |
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Program 1

FACTORIAL OF A NUMBER USING FUNCTION

DECLARE

n NUMBER := 10;

result NUMBER;

FUNCTION itfact(num NUMBER) RETURN NUMBER IS fact NUMBER := 1;

BEGIN

FOR i IN 1..num LOOP

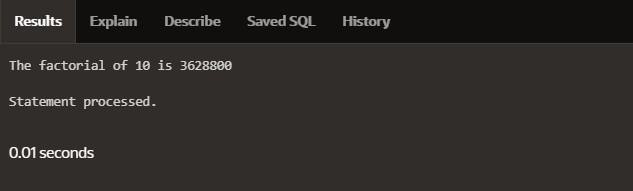
fact := fact \* i; END LOOP;

RETURN fact; END;

BEGIN

result := itfact(n);

DBMS\_OUTPUT.PUT\_LINE('The factorial of ' || n || ' is ' || result); END;



Program 2

Write a PL/SQL program using Procedures IN,INOUT,OUT parameters to retrieve the corresponding book information in library

CREATE OR REPLACE PROCEDURE book\_info(

p\_book\_id IN NUMBER, p\_author OUT VARCHAR2, p\_title OUT VARCHAR2, p\_published\_date OUT DATE

) AS BEGIN

SELECT author, title, published\_date INTO p\_author, p\_title, p\_published\_dateFROM books

WHERE book\_id = p\_book\_id;

EXCEPTION

WHEN NO\_DATA\_FOUND THEN

p\_author := NULL; p\_title := NULL;

p\_published\_date := NULL; WHEN OTHERS THEN

RAISE;

END book\_info;

DECLARE

v\_author VARCHAR2(100); v\_title VARCHAR2(100); v\_published\_date DATE; v\_book\_id NUMBER := 1;

BEGIN

book\_info(v\_book\_id, v\_author, v\_title, v\_published\_date);

IF v\_author IS NOT NULL THEN DBMS\_OUTPUT.PUT\_LINE('Book ID: ' || v\_book\_id); DBMS\_OUTPUT.PUT\_LINE('Author: ' || v\_author); DBMS\_OUTPUT.PUT\_LINE('Title: ' || v\_title);

DBMS\_OUTPUT.PUT\_LINE('Published Date: ' || TO\_CHAR(v\_published\_date, 'YYYY- MM-DD'));

ELSE

DBMS\_OUTPUT.PUT\_LINE('No book found with ID: ' || v\_book\_id); END IF;

END;

