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| EXNO : 12  9/11/24  Program 1 | **WORKING WITH CURSOR,PROCEDURES AND FUNCT**ION |

FACTORIAL OF A NUMBER USING FUNCTION

CREATE OR REPLACE FUNCTION itfact (a NUMBER) RETURN NUMBER IS fact NUMBER := 1; b NUMBER;

BEGIN

b := a;

WHILE b > 0 LOOP fact :=

fact \* b; b := b -

1;

END LOOP;

RETURN fact;

END;

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DECLARE result NUMBER;

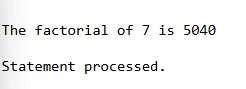
BEGIN

result := itfact(7); -- Call the function with 7 as input

DBMS\_OUTPUT.PUT\_LINE('The factorial of 7 is ' || result);

END;

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Program 2

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

-- Create a simple table for the library books

CREATE TABLE library ( book\_id INT PRIMARY KEY, book\_name VARCHAR2(100), author\_name VARCHAR2(100)

);

-- Sample data insertion

INSERT INTO library VALUES (1, 'Introduction to PL/SQL', 'John Doe'); INSERT INTO library VALUES (2, 'Advanced SQL', 'Jane Smith');

-- Procedure to retrieve book information

CREATE OR REPLACE PROCEDURE get\_book\_info ( p\_book\_id IN INT, p\_book\_name IN OUT

VARCHAR2, p\_author\_name OUT VARCHAR2

) IS

BEGIN

-- Retrieve book information based on the book\_id

SELECT book\_name, author\_name

INTO p\_book\_name, p\_author\_name

FROM library

WHERE book\_id = p\_book\_id;

-- Modify book\_name if needed (optional, based on INOUT) p\_book\_name := p\_book\_name || ' - Updated'; END;

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-- Test the procedure

DECLARE v\_book\_name VARCHAR2(100); v\_author\_name

VARCHAR2(100);

BEGIN

v\_book\_name := 'Sample Book'; -- Initial value

get\_book\_info(1, v\_book\_name, v\_author\_name); -- Fetch book info for ID 1

DBMS\_OUTPUT.PUT\_LINE('Book Name: ' || v\_book\_name); -- Output modified book name

DBMS\_OUTPUT.PUT\_LINE('Author Name: ' || v\_author\_name); -- Output author name END;

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