Ex.No.: 12		WORKING WITH
Date:	26/11/24	CURSOR, PROCEDURES AND
		FUNCTION

PROGRAM 1

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;
/
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;
/
```

Function created.

The factorial of 7 is 5040

Statement processed.

PROGRAM 2

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

```
CREATE TABLE library (
book id INT PRIMARY KEY, book name VARCHAR2(100), author name
VARCHAR2(100)
);
INSERT INTO library VALUES (1, 'Introduction to PL/SQL', 'John Doe');
INSERT INTO library VALUES (2, 'Advanced SQL', 'Jane Smith');
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
SELECT book name, author name
INTO p book name, p author name FROM library
WHERE book id = p book id;
p book name := p book name || ' - Updated';
END;
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;
```

```
Book Name: Introduction to PL/SQL - Updated Author Name: John Doe
Statement processed.
```