FACTORIAL OF A NUMBER USING FUNCTION

```
SET SERVEROUTPUT ON;
CREATE OR REPLACE FUNCTION factorial (n NUMBER)
RETURN NUMBER
IS
    fact NUMBER := 1;
BEGIN
    FOR I IN 1..n LOOP
        fact := fact * i;
END LOOP;
RETURN fact;
END;

DECLARE
    num NUMBER := 5;
    result NUMBER;
BEGIN
    result := factorial (num);
    DBMS_OUTPUT.PUT_LINE('Factorial of ' || num || ' is ' || result);
END;
/.
```

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

```
CREATE TABLE library(
        book_id      NUMBER PRIMARY KEY,
        book_title   VARCHAR2(100);
        author_name  VARCHAR2(100);
        price        NUMBER
);
INSERT INTO library VALUES (1, 'Database Systems', 'Ramex Elmasri', 600);
INSERT INTO library VALUES(2, 'Operating Systems', 'Galvin', 600);
INSERT INTO library VALUES(3, 'Computer Networks', 'Andrew Tanenbaum')

CREATE OR REPLACE PROCEDURE
get_book_info (
        p_book_id      IN NUMBER,
        p_book_title   OUT VARCHAR2,
        p_author_title OUT VARCHAR2,
        p_price        IN OUT NUMBER
)
IS
BEGIN.

SELECT book_title, author_name, p_price
INTO p_book_title, p_author_name, p_price
FROM library.
WHERE book_id = p_book_id;

EXCEPTION
WHEN NO_DATA_FOUND THEN
    p_book_title = 'Book Not Found';
    p_author_name := NULL;
    p_price := 0;
```

Evaluation Procedure	Marks awarded
PL/SQL Procedure(5)	5
Program/Execution (5)	5
Viva(5)	5
Total (15)	15
Faculty Signature	