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;
/
```

Program 2

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

```
SET SERVEROUTPUT ON;
CREATE OR REPLACE PROCEDURE get-bok-info (p-book-id IN NUMBER,
P-book-name OUT VARCHAR2, p-author OUT VARCHAR2, p-price IN
OUT NUMBER) IS
BEGIN
 SELECT book-name, author, price INTO p-book-name, p-author,
 P-price FROM library WHERE book-id = p-book-id;
 DBMS-OUTPUT.PUT-LINE ('Book Name:'|| p-book-name);
 DBMS-OUTPUT.PUT-LINE ('Author:'|| p-author);
 DBMS-OUTPUT.PUT-LINE ('Price:'|| p-price);

EXCEPTION:
    WHEN NO-DATA-FOUND THEN
    DBMS-OUTPUT.PUT-LINE ('No book found with ID'|| p-book-id);
END;
/
DECLARE
    V-book-name VARCHAR2(50);
    V-author VARCHAR2(50);
    V-price NUMBER:=0;
BEGIN
    get-book-info ('101, v-book-name,
    v-author, v-price);
    DBMS-OUTPUT.PUT-LINE ('Book
    info Retrieved Successfully);
    END;
```

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