

### Program 1

#### FACTORIAL OF A NUMBER USING FUNCTION

Create or replace Function

get\_factorial (p\_num IN NUMBER)

RETURN NUMBER

IS

v\_fact NUMBER := 1;

BEGIN

IF p\_num < 0 THEN  
RETURN NULL;

ELSIF p\_num = 0 THEN

RETURN 1;

ELSE

FOR i IN 1..p\_num LOOP

v\_fact := v\_fact \* i;

END LOOP;

RETURN v\_fact;

END IF;

END;

SET SERVEROUTPUT ON;

DECLARE

v\_result NUMBER;

BEGIN

v\_result := get\_factorial(5);

DBMS\_Output.PUT\_Line ('

Factorial of 5 is: ' || v\_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
manavg_book_info (
    p_book_id IN
    library_books.book_id % TYPE,
    p_title OUT
    library_books.title % TYPE,
    p_author OUT
    library_books.author % TYPE,
    p_copies_in_out IN OUT
    library_books.copies_available % TYPE
)
    
```

```

IS
v_book_id VARCHAR(100);
BEGIN
    select title, author,
    copies_available into
    p_title, p_author,
    p_copies_in_out
    FROM library_books
    WHERE book_id =
    p_book_id;
    
```

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