

Program 1

FACTORIAL OF A NUMBER USING FUNCTION

Create or Replace Function

get_factorial (\uparrow_{num} IN NUMBER)

RETURN NUMBER

IS

v_fact NUMBER := 1;

BEGIN

IF $\uparrow_{\text{num}} < 0$ THEN

RETURN NULL;

ELSIF $\uparrow_{\text{num}} = 0$ THEN

RETURN 1;

ELSE

FOR i IN 1.. \uparrow_{num} LOOP

$v_fact := v_fact * i;$

END LOOP;

RETURN v_fact ;

ENDIF;

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

manage_book_info(

↑_book_id IN

library_book.book_id %TYPE,

↑_title OUT

library_book.title %TYPE,

↑_author OUT

library_book.author %TYPE,

↑_Copies-in-out INOUT

library_book.copies_available %TYPE

)

IS

v_action_state VARCHAR(100)

BEGIN

Select title, author,

copies-available into

↑_title, ↑_author,

↑_Copies-in-out

FROM library_book

WHERE book_id =

↑_book_id;

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