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| **Ex.No.: 12** | | **WORKING WITH CURSOR, PROCEDURES AND**  **FUNCTIONS** |
| **Date:** | **23.10.2024** |

Program 1

FACTORIAL OF A NUMBER USING FUNCTION

create or replace function fact (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

a number(2); f number(10); begin

a := :n ;

f:=fact(a);

dbms\_output.put\_line('The factorial is '||f); end;

/

Input : 5

Program 2

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

--PROCEDURE FOR IN PARAMETER

create procedure proc(a in number) is bprice number; begin

select price into bprice from library where book\_id=a; dbms\_output.put\_line('The price of the book is '||bprice); end;

declare

a number(2); begin

a := :n;

proc(a); end;

Input: 5

--PROCEDURE FOR OUT PARAMETER

create or replace procedure proc(a in number,n out number) is begin

select publication\_year into n from library where book\_id=a; end;

declare

a number(2); n number(4); begin

a := :b;

proc(a,n);

dbms\_output.put\_line('The year of publication of the book is '||n); end;

Input 7



--PROCEDURE FOR INOUT PARAMETER

create or replace procedure proc(a in out number) is begin

a:=a+10;

end;

declare

a number(2); id number(2); begin

id := :b;

select price into a from library where book\_id=id; proc(a);

dbms\_output.put\_line('The updated price of the book is '||a); end;

Input 3

