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

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

The factorial is 120

## 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

The price of the book is 9.75

```
--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 The year of publication of the book is 1951

```
--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

The updated price of the book is 23