

Program 1

FACTORIAL OF A NUMBER USING FUNCTION

```
(CREATE OR REPLACE FUNCTION factorial (n IN NUMBER)
RETURN NUMBER IS
    result Number := 1;
BEGIN
    IF n < 0 then
        Return NULL;
    ELSE IF n = 0 OR n = 1 then
        RETURN 1;
    ELSE
        FOR i IN 2 .. n loop
            Result := result * i;
        END LOOP;
    END IF;
RETURN RESULT
EXCEPTION
    WHEN OTHER THEN
        DBMS_OUTPUT.PUT_LINE ('AN ERROR OCCURED' || SQLERRM);
        RETURN NULL;
END fact;
/ set server output on;
DECLARE
    num Number = 5;
    fact number;
END;
```

PROGRAM 2

(create Table Books (

Book-id number (5) Primary key,
title varchar (100), author varchar (100),
Publication-year number (4), available-copies
number (5));

Insert into Books values (1, '1984', 'Orwell', 1949, 4);

Insert into Books values (2, 'Mockingbird', 'Lee', 1960, 2);

Insert into Books values (3, 'Gatsby', 'Fitzgerald', 1925, 5);

COMMIT;

Create or Replace Procedure Getbook In f By Id (bookid In
NUMBER, P-title Out VARCHAR 2, P-author Out

VARCHAR 2) IS BEGIN

Select title author into P-title, P-author out varchar

END;

Set Server output ON;

DECLARE

V-title varchar (100); V-author varchar 2 (100)

BEGIN

Get book In form ID (1, V-title, V-author);

DBMS-OUTPUT, PUT-LINE ('Book', '|| V-title ||', Author ||
V-author);

END;