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EXNO:12 WORKINGWITHCURSOR, PROCEDURES AND FUNCTION DATE:26.11.2024 Program 1 FACTORIAL OF A NUMBER USING FUNCTION CREATE OR REPLACE FUNCTION it fact (a NUMBER) RETURN NUMBER IS fact NUMBER := 1; b NUMBER; **BEGIN** b := a; WHILE b > 0LOOP fact := fact \* b; b:=b-1; END LOOP; RETURN fact; END; Function created. **DECLARE** result NUMBER; **BEGIN** result := itfact(7); -- Call the function with 7 as input DBMS\_OUTPUT.PUT\_LINE('The factorial of 7 is ' || result); END; The factorial of 7 is 5040 Statement processed. Program 2 Write a PL/SQL program using Procedures IN, INOUT, OUT parameters to retrieve the corresponding book information in library -- Create a simple table for the library books CREATE TABLE library (

```
book_id INT PRIMARY KEY,
 book_name VARCHAR2(100),
 author_name VARCHAR2(100)
):
-- Sample data insertion
INSERT INTO library VALUES (1, 'Introduction to PL/SQL', 'John Doe');
INSERT INTO library VALUES (2, 'Advanced SQL', 'Jane Smith');
-- Procedure to retrieve book information
CREATE OR REPLACE PROCEDURE get_book_info (
  p book id IN INT,
  p book name IN OUT VARCHAR2,
  p_author_name OUT VARCHAR2
)IS
BEGIN
  -- Retrieve book information based on the book_id
  SELECT book name, author name
  INTO p_book_name, p_author_name
  FROM library
  WHERE book_id = p_book_id;
  -- Modify book_name if needed (optional, based on INOUT)
  p_book_name := p_book_name || ' - Updated';
END;
-- Test the procedure
DECLARE
  v_book_name VARCHAR2(100);
  v_author_name VARCHAR2(100);
BEGIN
  v_book_name := 'Sample Book'; -- Initial value
  get_book_info(1, v_book_name, v_author_name); -- Fetch book info for ID 1
  DBMS_OUTPUT_PUT_LINE('Book Name: ' | | v_book_name); -- Output modified book name
  DBMS_OUTPUT.PUT_LINE('Author Name: ' | | v_author_name); -- Output author name
END;
```

Book Name: Introduction to PL/SQL - Updated

Author Name: John Doe

Statement processed.