## PL/SQL Exercise 1: Control Structures

In this exercise, you will learn PL/SQL control structures like IF-THEN-ELSE, CASE, and LOOPS (WHILE, etc.). These are important for decision making and repetitive tasks in database programming.

## **Example 1: IF-THEN-ELSE Statement (Grading System)**

Code:

```
DECLARE
v_marks NUMBER := 75;

BEGIN

IF v_marks >= 90 THEN
    DBMS_OUTPUT.PUT_LINE('Grade: A');

ELSIF v_marks >= 75 THEN
    DBMS_OUTPUT.PUT_LINE('Grade: B');

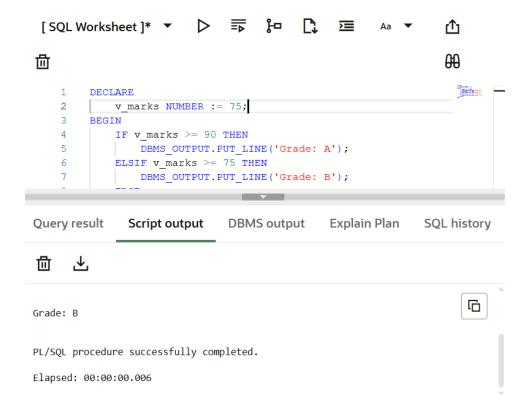
ELSE
    DBMS_OUTPUT.PUT_LINE('Grade: C');

END IF;

END;

Output:
Grade: B

Screenshot:
```



## **Example 2: WHILE LOOP (Number Print)**

Code:

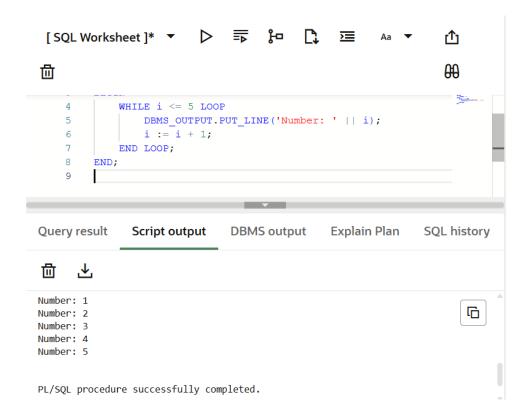
```
DECLARE
i NUMBER := 1;

BEGIN
WHILE i <= 5 LOOP
DBMS_OUTPUT.PUT_LINE('Number: ' || i);
i := i + 1;
END LOOP;
END;

Output:
Number: 1
Number: 2
Number: 3
```

Screenshot:

Number: 4 Number: 5



## **Example 3: CASE Statement (Day Check)**

Code:

```
DECLARE

v_day VARCHAR2(10) := 'WEDNESDAY';

BEGIN

CASE v_day

WHEN 'MONDAY' THEN DBMS_OUTPUT.PUT_LINE('Start of the week');

WHEN 'FRIDAY' THEN DBMS_OUTPUT.PUT_LINE('Weekend is near');

WHEN 'SUNDAY' THEN DBMS_OUTPUT.PUT_LINE('Rest day');

ELSE DBMS_OUTPUT.PUT_LINE('Midweek day');

END CASE;

END;

Output:

Midweek day

Screenshot:
```

