**WEEK-2**

**PL/SQL programming**

**1. Control Structures**

DECLARE

    v\_marks NUMBER:=85;

    v\_grade CHAR(1);

BEGIN

    -- IF-ELSIF-ELSE

    IF v\_marks>=90 THEN

        v\_grade:='A';

    ELSIF v\_marks>=80 THEN

        v\_grade:='B';

    ELSIF v\_marks>=70 THEN

        v\_grade:='C';

    ELSE

        v\_grade:='F';

    END IF;

    DBMS\_OUTPUT.PUT\_LINE('Grade ' || v\_grade);

    -- CASE Statement

    CASE

        WHEN v\_grade='A' THEN DBMS\_OUTPUT.PUT\_LINE('Excellent!');

        WHEN v\_grade='B' THEN DBMS\_OUTPUT.PUT\_LINE('Very Good!');

        WHEN v\_grade='C' THEN DBMS\_OUTPUT.PUT\_LINE('Good!');

        ELSE DBMS\_OUTPUT.PUT\_LINE('Needs Improvement!');

    END CASE;

    -- FOR LOOP

    DBMS\_OUTPUT.PUT\_LINE('First 5 Even Numbers:');

    FOR i IN 1..5 LOOP

        DBMS\_OUTPUT.PUT\_LINE(i\*2);

    END LOOP;

    -- WHILE LOOP

    DECLARE

        counter NUMBER:=3;

    BEGIN

        WHILE counter>0 LOOP

            DBMS\_OUTPUT.PUT\_LINE('Countdown: ' || counter);

            counter:=counter-1;

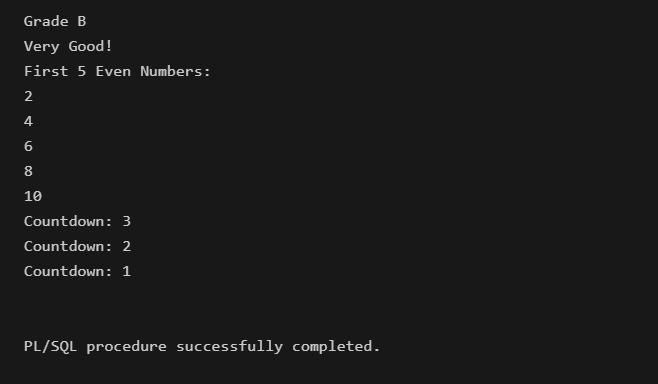
        END LOOP;

    END;

END;

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**Output:**

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**2. Stored Procedures**

CREATE OR REPLACE PROCEDURE even\_numbers(n IN NUMBER) IS

BEGIN

    FOR i IN 1..n LOOP

        DBMS\_OUTPUT.PUT\_LINE(i\*2);

    END LOOP;

END;

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SET SERVEROUTPUT ON;

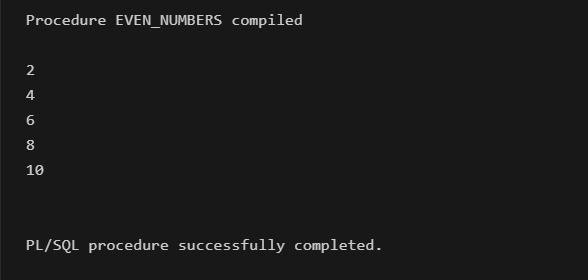
BEGIN

    even\_numbers(5);

END;

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**Output:**

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