

1) Execute the script, what will happen if the value of **v_num** is equal to 10?

```
SET SERVEROUTPUT ON;
DECLARE
    v_num NUMBER := &sv_num;
    v_result NUMBER;
BEGIN
    v_result := POWER(v_num, 2);
    DBMS_OUTPUT.PUT_LINE('The value of v_result is: ' || v_result);
END;
/
```

ANSWER:

```
old:DECLARE
    v_num NUMBER := &sv_Nnum;
    v_result NUMBER;
BEGIN
    v_result := POWER(v_num, 2);
    DBMS_OUTPUT.PUT_LINE('The value of v_result is: ' || v_result);
END;
```

```
new:DECLARE
    v_num NUMBER := 10;
    v_result NUMBER;
BEGIN
    v_result := POWER(v_num, 2);
    DBMS_OUTPUT.PUT_LINE('The value of v_result is: ' || v_result);
END;
The value of v_result is: 100
```

2) In this exercise, you determine the day of the week based on today's date. You then display the results on the screen. Create the following PL/SQL script:

a) The script output is: Today is Thursday

b) Nothing will be printed

c) SET SERVEROUTPUT ON;

```
DECLARE
    v_day VARCHAR2(20);
    v_time VARCHAR2(20);
BEGIN
    v_day := TO_CHAR(SYSDATE, 'Day');
    v_time := TO_CHAR(SYSDATE, 'HH MI SS');
    DBMS_OUTPUT.PUT_LINE('Today is ' || v_day || ', ' || v_time);
END;
```

```

d) SET SERVEROUTPUT ON
DECLARE
    v_day VARCHAR2(20);
    v_time VARCHAR2(20);
BEGIN
    v_day := TO_CHAR(SYSDATE, 'fmDay');
    v_time := TO_CHAR(SYSDATE, 'HH:MI');
    DBMS_OUTPUT.PUT_LINE('Today is ' || v_day || ', ' || v_time);
END;

```

e)

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4) SET SERVEROUTPUT ON
DECLARE
 v_a NUMBER := &a;
 v_b NUMBER := &b;
BEGIN
 if v_a < v_b THEN
 DBMS_OUTPUT.PUT_LINE('Minimum is: ' || v_a);
 DBMS_OUTPUT.PUT_LINE('Maximum is: ' || v_b);
 ELSE if v_a > v_b THEN
 DBMS_OUTPUT.PUT_LINE('Minimum is: ' || v_b);
 DBMS_OUTPUT.PUT_LINE('Maximum is: ' || v_a);
 ELSE
 DBMS_OUTPUT.PUT_LINE('Values are equal and: ' || v_a);
 end IF;
end IF;
END;

5) SET SERVEROUTPUT ON
DECLARE
 v_year NUMBER := &year;
BEGIN
 if v_year MOD 400 = 0 OR v_year MOD 4 = 0 AND v_year MOD 100 !=0 THEN
 DBMS_OUTPUT.PUT_LINE('Leap year: ' || v_year);
 ELSE
 DBMS_OUTPUT.PUT_LINE('Not a leap year: ' || v_year);
 end IF;
END;

6) SET SERVEROUTPUT ON
DECLARE
 a NUMBER := &a;
 b NUMBER := &b;
 c NUMBER := &c;
 d NUMBER := &d;
BEGIN
 if Power(a,3) + Power(b,3) = Power(c,3) + Power(d,3) OR Power(a,3) + Power(c,3) = Power(b,3) +
 Power(d,3) OR Power(a,3) + Power(d,3) = Power(b,3) + Power(c,3) THEN

```

```
 DBMS_OUTPUT.PUT_LINE('The number is Ramanujan');
ELSE
 DBMS_OUTPUT.PUT_LINE('The number is NOT Ramanujan');
end IF;
END;
```