```
SQL> -- Question 1
SQL> -- Find a maximum between three numbers.
SQL> DECLARE
 2
        a NUMBER;
        b NUMBER;
 4
        c NUMBER;
 5
        mx NUMBER;
    BEGIN
        a := &a;
 8
        b := &b;
 9
        c := &c;
10
11
        IF a > b THEN
12
            IF a > c THEN
13
                mx := a;
14
            ELSE
15
                mx := c;
16
            END IF;
17
        ELSE
18
            IF b > c THEN
19
                mx := b;
20
            ELSE
21
                mx := c;
22
            END IF;
23
        END IF;
24
25
        DBMS_OUTPUT.PUT_LINE('Max: ' || mx);
26 END;
Enter value for a: 20
```

```
old
     7:
            a := &a;
     7:
            a := 20;
new
Enter value for b: 10
old
     8:
            b := &b;
      8:
            b := 10;
new
Enter value for c: 30
old
     9:
            c := &c;
    9:
            c := 30;
new
Max: 30
PL/SQL procedure successfully completed.
SQL> -- Question 2
SQL> -- Check whether a number is divisible by 5 and 11 or not.
SQL> DECLARE
 2
        a NUMBER;
    BEGIN
 4
        a := &a;
  5
        IF MOD(a, 5) = 0 AND MOD(a, 11) = 0 THEN
  6
             DBMS_OUTPUT.PUT_LINE('Divisible by 5 and 11');
        ELSE
  8
             DBMS_OUTPUT.PUT_LINE('Not divisible by 5 and 11');
  9
10
        END IF;
11 END;
12
Enter value for a: 55
old
     4:
            a := &a;
     4:
            a := 55;
new
Divisible by 5 and 11
```

```
PL/SQL procedure successfully completed.
SQL> -- Question 2
SQL> -- Check whether a number is divisible by 5 and 11 or not.
SQL> DECLARE
        a NUMBER;
 3 BEGIN
        a := &a;
  5
        IF MOD(a, 5) = 0 AND MOD(a, 11) = 0 THEN
  6
            DBMS_OUTPUT.PUT_LINE('Divisible by 5 and 11');
  8
        ELSE
            DBMS_OUTPUT.PUT_LINE('Not divisible by 5 and 11');
  9
10
        END IF;
11 END;
12 /
Enter value for a: 47
old 4: a := &a;
new 4: a := 47;
Not divisible by 5 and 11
PL/SQL procedure successfully completed.
SQL> -- Question 3
SQL> -- Find the area of rectangle, triangle, and square.
SQL> DECLARE
        length NUMBER;
        breadth NUMBER;
        base NUMBER;
```

```
height NUMBER;
  5
        side NUMBER;
  6
         area NUMBER;
    BEGIN
 9
        DBMS_OUTPUT.PUT_LINE('1. Rectangle');
        length := &length;
10
         breadth := &breadth;
11
12
        area := length * breadth;
13
        DBMS_OUTPUT.PUT_LINE('Area: ' || area);
14
        DBMS_OUTPUT.PUT_LINE('2. Triangle');
15
        base := &base;
16
17
         height := &height;
18
        area := 0.5 * base * height;
        DBMS_OUTPUT.PUT_LINE('Area: ' || area);
19
20
21
        DBMS_OUTPUT.PUT_LINE('3. Square');
22
        side := &side;
23
        area := side * side;
        DBMS_OUTPUT.PUT_LINE('Area: ' | area);
24
    END;
25
26
Enter value for length: 3
old 10:
            length := &length;
new 10:
           length := 3;
Enter value for breadth: 5
old 11: breadth := &breadth;
new 11:
            breadth := 5;
Enter value for base: 8
old 16:
            base := &base;
```

```
new 16:
            base := 8;
Enter value for height: 4
            height := &height;
old 17:
    17:
            height := 4;
new
Enter value for side: 7
old 22:
            side := &side;
new 22:
            side := 7;
1. Rectangle
Area: 15
2. Triangle
Area: 16
3. Square
Area: 49
PL/SQL procedure successfully completed.
SQL> DECLARE
        phy NUMBER;
        chem NUMBER;
        bio NUMBER;
  4
  5
        math NUMBER;
  6
        comp NUMBER;
         perc NUMBER;
    BEGIN
  9
         phy := &phy;
 10
        chem := &chem;
 11
        bio := &bio;
        math := &math;
 12
 13
        comp := ∁
 14
```

```
15
         perc := (phy + chem + bio + math + comp) / 5;
16
17
         IF perc >= 90 THEN
             DBMS_OUTPUT.PUT_LINE('Grade: A');
18
19
         ELSIF perc >= 80 THEN
             DBMS_OUTPUT.PUT_LINE('Grade: B');
20
21
         ELSIF perc >= 70 THEN
             DBMS_OUTPUT.PUT_LINE('Grade: C');
22
         ELSIF perc >= 60 THEN
23
24
             DBMS_OUTPUT.PUT_LINE('Grade: D');
         ELSIF perc >= 40 THEN
25
             DBMS_OUTPUT.PUT_LINE('Grade: E');
26
27
        ELSE
             DBMS_OUTPUT.PUT_LINE('Grade: F');
28
29
         END IF;
30
    END;
31
Enter value for phy: 74
old
     9:
             phy := &phy;
     9:
             phy := 74;
new
Enter value for chem: 83
old 10:
            chem := &chem;
new 10:
             chem := 83;
Enter value for bio: 93
old 11:
            bio := &bio;
new 11:
             bio := 93;
Enter value for math: 89
old 12:
            math := &math;
new 12:
            math := 89;
Enter value for comp: 99
```

```
old 13:
            comp := ∁
new 13:
            comp := 99;
Grade: B
PL/SQL procedure successfully completed.
SQL> -- Question 5
SQL> -- Find sum of 100 natural number using loop.
SQL> DECLARE
        i NUMBER;
        numsum NUMBER;
 4 BEGIN
 5
        i := 1;
        numsum := 0;
 6
        WHILE i <= 100 LOOP
  8
 9
            numsum := numsum + i;
            i := i + 1;
10
11
        END LOOP;
12
        DBMS_OUTPUT.PUT_LINE('Sum: ' | numsum);
13
14 END;
15
Sum: 5050
PL/SQL procedure successfully completed.
SQL> -- Question 6
SQL> CREATE TABLE empinfo (id NUMBER, name VARCHAR2(20), age NUMBER, address VARCHAR2(20), salary NUMBER);
```

```
Table created.
SQL>
SQL> INSERT INTO empinfo VALUES (1, 'Ramesh', 32, 'Ahmedabad', 2000);
1 row created.
SQL> INSERT INTO empinfo VALUES (2, 'Khilan', 25, 'Delhi', 1500);
1 row created.
SQL> INSERT INTO empinfo VALUES (3, 'kaushik', 23, 'Kota', 2000);
1 row created.
SQL> INSERT INTO empinfo VALUES (4, 'Chaitali', 25, 'Mumbai', 6500);
1 row created.
SQL> INSERT INTO empinfo VALUES (5, 'Hardik', 27, 'Bhopal', 8500);
1 row created.
SQL> INSERT INTO empinfo VALUES (6, 'Komal', 22, 'MP', 4500);
1 row created.
SQL>
SQL> ALTER TABLE empinfo ADD CONSTRAINT empinfo_pk PRIMARY KEY (id);
```

```
SQL> -- Question 6.A
SQL> -- Find the name of person having id =1
SQL> DECLARE
        e_id empinfo.id%TYPE := 1;
        e_name empinfo.name%TYPE;
 4 BEGIN
         SELECT name INTO e_name FROM empinfo WHERE id = e_id;
        DBMS_OUTPUT.PUT_LINE('The name of person having id=' || e_id || ' is ' || e_name);
 7 END;
The name of person having id=1 is Ramesh
PL/SQL procedure successfully completed.
SQL> -- Question 6.B
SQL> -- Find the name, age, salary lives in kota.
SQL> DECLARE
        e_city empinfo.address%TYPE := 'Kota';
        e_name empinfo.name%TYPE;
 4
        e_age empinfo.age%TYPE;
         e_salary empinfo.salary%TYPE;
  5
 6 BEGIN
         SELECT name, age, salary INTO e_name, e_age, e_salary
         FROM empinfo WHERE address = e_city;
        DBMS_OUTPUT.PUT_LINE('The name, age, salary who lives in '
  9
         || e_city || ' is ' || e_name || ', ' || e_age || ', ' || e_salary);
 10
11 END;
 12
```

Table altered.

The name, age, salary who lives in Kota is kaushik, 23, 2000	
PL/SQL procedure successfully completed.	
SQL>	