PL/SQL Assignment

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Class: BTech 2nd Year

Division: B

1.

```
DECLARE

    var1 varchar(40) := 'Hello World' ;

BEGIN

    dbms_output.put_line(var1);

END;

/
```

```
Hello World


PL/SQL procedure successfully completed.
```

2.

```
DECLARE
    LOW integer := &LOW ;
    HIGH integer := &HIGH ;
BEGIN
    IF LOW > HIGH THEN
        dbms_output.put_line('LOW CANNOT BE GREATER THAN HIGH!');
    ELSE
        dbms_output.put_line('Even Values from '||LOW||' and
'||HIGH||':-');
        FOR p in LOW .. HIGH LOOP
            IF MOD(p,2) = 0 THEN
                dbms_output.put_line(p);
            END IF;
        END LOOP;
    END IF;
END;
/
```

```
Even Values from 5 and 15:-
6
8
10
12
14


PL/SQL procedure successfully completed.
```

3.

```
DECLARE

    a INTEGER := &a;

    b INTEGER := 0;

    rem INTEGER;

BEGIN

    dbms_output.put_line('Given number: '||a);

    WHILE a > 0 LOOP

        rem := MOD(a,10);

        b := 10*b + rem;

        a := TRUNC(a/10);

    END LOOP;

    a := b;

    dbms_output.put_line('Reversed Number: '||a);

END;

/
```

```
Given number: 578
Reversed Number: 875


PL/SQL procedure successfully completed.
```

4.

```
DECLARE
    a INTEGER := &a;
    s INTEGER := 0;
    r INTEGER;
BEGIN
    dbms_output.put_line('Given number: '||a);
    WHILE a > 0 LOOP
        r := MOD(a,10);
        s := s + r;
        a := TRUNC(a/10);
    END LOOP;
    dbms_output.put_line('Sum of Digits of Number: '||s);
END;
/
```

```
Given number: 7856
Sum of Digits of Number: 26


PL/SQL procedure successfully completed.
```

5.

```
DECLARE
    l INTEGER := 1;
    h INTEGER := 5;
    a NUMBER(8,2);
    pi constant number := 3.141592654;
BEGIN
    FOR i IN l..h LOOP
        a := pi*i*i;
        dbms_output.put_line('Radius: '||i||' Area of Circle: '||a);
    END LOOP;
END;
/
```

```
Radius: 1 Area of Circle: 3.14
Radius: 2 Area of Circle: 12.57
Radius: 3 Area of Circle: 28.27
Radius: 4 Area of Circle: 50.27
Radius: 5 Area of Circle: 78.54


PL/SQL procedure successfully completed.
```

6.

```
DECLARE
    a INTEGER := &a;
    b INTEGER := &b;
    c INTEGER := &c;
BEGIN
    dbms_output.put_line('Given numbers: '||a||' '||b||' '||c);
    IF a>b AND a>c THEN
        dbms_output.put_line(a||' is the greatest number!');
    ELSIF b>c THEN
        dbms_output.put_line(b||' is the greatest number!');
    ELSE
        dbms_output.put_line(c||' is the greatest number!');
```

```
    END IF;

END;

/

Given numbers: 54 98 48
98 is the greatest number!

PL/SQL procedure successfully completed.
```