**2. PL/SQL Control Statement Exercises: Print 1st n numbers with a difference of 3 and starting from 1**

DECLARE

n number:= &first\_n\_number;

i number:=1;

m number:=1;

BEGIN

DBMS\_OUTPUT.PUT\_LINE ('The first '||n||' numbers are: ');

DBMS\_OUTPUT.PUT (i||' ');

for i in 1..n-1 loop

m:=m+3;

dbms\_output.put(m||' ');

END LOOP;

dbms\_output.new\_line;

END;

3. Write a PL/SQL program to count the number of employees in department 50 and check whether this department have any vacancies or not. There are 45 vacancies in this department.

**Sample Solution:**

**PL/SQL Code:**

SET SERVEROUTPUT ON

DECLARE

tot\_emp NUMBER;

BEGIN

SELECT Count(\*)

INTO tot\_emp

FROM employees e

join departments d

ON e.department\_id = d.department\_id

WHERE e.department\_id = 50;

dbms\_output.Put\_line ('The employees are in the department 50: '

||To\_char(tot\_emp));

IF tot\_emp >= 45 THEN

dbms\_output.Put\_line ('There are no vacancies in the department 50.');

ELSE

dbms\_output.Put\_line ('There are some vacancies in department 50.');

END IF;

END;

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Sample Output:

The employees are in the department 50: 45

There are no vacancies in the department 50.

PL/SQL procedure successfully completed.