

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.
```