Aim :-

To write PL/SQL Programs using loops for printing Prime numbers customers IDS and for demonstrating loop control in different scenarios

Procedure :

1. Start a PL/SQL block or Procedure.
2. Use a cursor (if-required) to fetch customer IDs from a table.
3. for each id, check whether it is a prime number using a loop.
4. use for loop / WHILE loop to demonstrate prime number checking
5. Print the result using DBMS_output, PUT_LINE.
6. End the block.

EXAMPLE 1 : using WHILE loop with cursor
Prime check using WHILE loop

```
CREATE OR REPLACE PROCEDURE Print_Prime_customers IS
    CURSOR cust_cur IS
    SELECT customer_id FROM customers;
    V_id Number;
    V_is_Prime BOOLEAN;
    V_is NUMBER;
BEGIN
OPEN cust_cur;
    LOOP
        FETCH cust_cur INTO v_id;
        EXIT WHEN cust_cur% Not found;
        -- Prime check using WHILE loop
    If V_id <2 THEN
    V_is Prime := FALSE;

    ELSE
        V_is_Prime := TRUE;
        V_i = 2;
               TRUNC (SQRT (v_id)) loop
```

```
CREATE OR REPLACE PROCEDURE Point_first_n_Primes(n number
      V_num NUMBER := 2;                                      is
      V_count Number := 0;
      V_is_Prime BOOLEAN;
BEGIN

      WHILE V_count LN loop
      V_is_Prime := TRUE;
- Prime check using for loop
for i IN 2, TRUNC (SQRT (V_num)) LOOP
   If MOOD (V_num _i) = 0 then
   V_is_Prime := FALSE;
   Exit;
   End If;
End loop.
```

this Procedure Prints the first N number using a for loop
for Example

```
BEGIN

   Print_first_n_Primes (10);  -- Print first 10 Prime num
END;
```