

```
// Write a Pl/Sql code that shows the department id,location_id,street_address, city where department_id =90.
```

```
DECLARE
```

```
    did loc.DEPARTMENT_ID%type;  
    dloc loc.location_id%type;  
    add loc.street_address%type;  
    city loc.city%type;
```

```
BEGIN
```

```
    SELECT department_id,location_id,street_address,city INTO  
    did,dloc,add,city
```

```
    FROM loc
```

```
    WHERE DEPARTMENT_ID= 90;
```

```
    dbms_output.put_line('The details of location is: ');
```

```
    dbms_output.put_line('Department Id : ' || did);
```

```
    dbms_output.put_line('location id : ' || dloc);
```

```
    dbms_output.put_line('street address : ' || add);
```

```
    dbms_output.put_line('city : ' || city);
```

```
END;
```

```
> Write a code that shows first name, lastname,department where first  
name = "Neena".
```

```
DECLARE
```

```
    EFN A.FIRST_NAME%TYPE;
```

```
    ELN A.LAST_NAME%TYPE;
```

```
    EDP A.DEPARTMENT_NAME%TYPE;
```

```
BEGIN
```

```
    SELECT FIRST_NAME, LAST_NAME, DEPARTMENT_NAME INTO EFN, ELN, EDP
```

```
    FROM A
```

```
    WHERE FIRST_NAME='Neena';
```

```

dbms_output.put_line('The details of Employee is: ');
dbms_output.put_line('First Name      : ' || EFN);
dbms_output.put_line('Last Name       : ' || ELN);
dbms_output.put_line('Department Name : ' || EDP);
END;

```

#### ➤ Create a view

```

CREATE OR REPLACE FORCE VIEW "A" ("FIRST_NAME", "LAST_NAME",
"DEPARTMENT_NAME") AS

```

```

    select first_name,last_name,departments.department_name
from employees,departments
where employees.department_id = departments.department_id and
employee_id=101
/

```

```

CREATE OR REPLACE FORCE VIEW "LOC" ("DEPARTMENT_ID", "LOCATION_ID",
"STREET_ADDRESS", "CITY") AS

```

```

    select department_id,locations.location_id,street_address,city
from locations,departments
where locations.location_id = departments.location_id and
department_id = 90
/

```

#### ➤ Loop

```

DECLARE
    i number := 1;
BEGIN
    LOOP
        dbms_output.put_line(i);
        i:=i+1;
        IF i>50 THEN

```

```
        exit;
    END IF;
END LOOP;
END;
```

#### ➤ For loop

```
DECLARE
    i number := 1;
    j number := 1;
BEGIN
    <<outer_loop>>
    FOR i IN 1..5 LOOP
        <<inner_loop>>
        FOR j IN 1..5 LOOP
            dbms_output.put_line('i is ' || i || ' j is ' || j);
        END LOOP inner_loop;
    END LOOP outer_loop;
END;
```

#### ➤ While loop

```
DECLARE
    i number := 1;
    j number := 1;
BEGIN
    WHILE i<=50 LOOP
        dbms_output.put_line('i is ' || i);
        i:= i+1;
    END LOOP;
END;
```

### ➤ Prime number check

```
DECLARE
INPUT NUMBER:=:INP;
    FLAG NUMBER := 0;
    I NUMBER :=2;
BEGIN
    IF INPUT<2 THEN
        FLAG := 1;
    END IF;
    FOR I IN 2..INPUT/2 LOOP
        IF I MOD 2 = 0 THEN
            FLAG := 1;
            EXIT;
        END IF;
    END LOOP;
    IF FLAG = 0 THEN
        dbms_output.put_line(INPUT || ' IS A PRIME NUMBER ');
    ELSE
        dbms_output.put_line(INPUT || ' IS NOT A PRIME NUMBER ');
    END IF;
END;
```

### ➤ Sum of first 15 prime number (There may be error)

```
DECLARE
--INPUT NUMBER:=47;
    FLAG NUMBER := 0;
    I NUMBER :=2;
    SUM NUMBER :=0;
    J NUMBER :=1;
```

BEGIN

FOR J IN 1..47 LOOP

I :=2;

WHILE I<=J/2 LOOP

IF I MOD 2 = 0 THEN

FLAG := 1;

EXIT;

END IF;

I := I+1;

END LOOP;

IF FLAG = 0 THEN

SUM := SUM+J;

END IF;

FLAG :=0;

END LOOP;

dbms\_output.put\_line('Sum of first 15 prime numbers are : '||  
SUM);

END;

### ➤ Procedure - Summation

DECLARE

a number:=:in;

b number:=:in1;

c number;

procedure summation(x IN number, y IN number, z out number) IS

BEGIN

```

        if x>y then
            z:= y;
        else
            z:=y-x;
        end if;
    END;
BEGIN
    summation(a,b,c);
    dbms_output.put_line('The result is : ' || c);
END;
```

### ➤ Cursor

```

DECLARE

    FN EMPLOYEES.FIRST_NAME%TYPE;
    JOB EMPLOYEES.JOB_ID%TYPE;
    SALARY EMPLOYEES.SALARY%TYPE;

    CURSOR EMP IS

        SELECT FIRST_NAME, JOB_ID, SALARY
        FROM EMPLOYEES;

BEGIN

    OPEN EMP;

    LOOP

        FETCH EMP INTO FN, JOB, SALARY;

        EXIT WHEN EMP%notfound;

        dbms_output.put_line('Employee name   : ' || FN);
        dbms_output.put_line('Employee job id  : ' || JOB);
        dbms_output.put_line('Employee salary : ' || SALARY);

    END LOOP;
```

```

        CLOSE EMP;
END;

➤ Procedure

create procedure ddd as
begin
    declare
        a number;
    begin
        a:=12;
        dbms_output.put_line(a);
    end;
end;

```

```

➤ Procedure + Cursor

DECLARE
    salcom NUMBER;
    CURSOR cemp IS
        Select * from employees where commission_pct is not null;
    emp employees%rowtype;
    procedure check_commission(salary IN NUMBER , commssion IN NUMBER)
IS
    BEGIN
        salcom := (emp.salary+ emp.salary*emp.commission_pct);
        dbms_output.put_line (' Salary : ' || salcom);
    END;
BEGIN
    OPEN cemp;
LOOP
    FETCH cemp into emp;

```

```
Exit when cemp%notfound;  
BEGIN  
check_commission(emp.salary,emp.commission_pct);  
END;  
END LOOP;  
CLOSE cemp;  
END;
```