# EX NO.: 05                    PL/SQL

**AIM:**

To work with PL/SQL commands

**PROCEDURE:**

Step1: Open Run SQL on Command line and connect to SQL .

Step 2: Then work with database using PL/SQL Block commands

     i.     Declare
    ii.     Begin
   iii.     Exception
   iv.     End

**SYNTAX:**

DECLARE

  <declarations section>

BEGIN

  <executable command(s)>

EXCEPTION

  <exception handling>

END;

**EXAMPLE:**

    **1.   ADDITION OF TWO NUMBERS:**

**PROGRAM CODE:**

```
SQL> SET SERVEROUTPUT ON;
SQL> declare
 2  x number(5);
 3  y number(5);
 4  z number(5);
 5  begin
 6  x:=50;
 7  y:=20;
 8  z:=x+y;
 9  dbms_output.put_line('sum is'||z);
10  end;
11  /
```

**OUTPUT:**

```
SQL> set serveroutput on
SQL> ;
  1  declare
  2  x number(5);
  3  y number(5);
  4  z number(5);
  5  begin
  6  x:=50;
  7  y:=20;
  8  z:=x+y;
  9  dbms_output.put_line('sum is' || z);
 10* end;
SQL> /
sum is70

PL/SQL procedure successfully completed.
```

## 2. GENERATING SERIES:

**PROGRAM CODE:**

```
SQL> SET SERVEROUTPUT ON;
SQL> declare
 2  n number(5);
 3  tempp number(5);
 4  begin
 5  n:=1;  --1 for print first 10 numbers,2 for even number,3 for odd
 6  for i in 1..10 loop
 7  case n
 8  when 1 then
 9  dbms_output.put_line(i);
10  when 2 then
11  if mod(i,2)=0 then
12  dbms_output.put_line(i);
13  end if;
14  when 3 then
15  if mod(i,2)!=0 then
16  dbms_output.put_line(i);
17  end if;
18  end case;
19  end loop;
20  end;
21 /
```

**OUTPUT:**

```
SQL> declare
  2  n number(5);
  3  tempp number(5);
  4  begin
  5   n:=1;   --1 for print first 10 numbers,2 for even number,3 for odd
  6
  7  for i in 1..10 loop
  8   case n
  9   when 1 then
 10   dbms_output.put_line(i);
 11   when 2 then
 12   if mod(i,2)=0 then
 13   dbms_output.put_line(i);
 14   end if;
 15   when 3 then
 16   if mod(i,2)!=0 then
 17   dbms_output.put_line(i);
 18   end if;
 19   end case;
 20   end loop;
 21  -- Print the Result
 22
 23  end;
 24  /
1
2
3
4
5
6
7
8
9
10

PL/SQL procedure successfully completed.
```

**RESULT:**

The PL/SQL queries were successfully executed and the output is noted.