**Practical No:-7**

**Aim: Writing Procedures in PL/SQL Block.**

**1.Create an empty procedure, replace a procedure and call procedure.**

**1.1 Program:**

SQL> create or replace procedure empty\_pro AS

2 begin

3 null;

4 endempty\_pro;

5 /

Procedure created.

**Output:**

SQL> call empty\_pro();

Call completed.

**1.2 Program:**

SQL> create or replace procedure greeting

2 AS

3 begin

4 dbms\_output.put\_line('Hello World');

5 end;

6 /

Procedure created.

**Output:**

SQL> call greeting();

Hello World

Call completed.

**1.3 Program:**

SQL> create procedure greeting

2 AS

3 begin

4 dbms\_output.put\_line('abcd');

5 end;

6 /

create procedure greeting

\*

ERROR at line 1:

ORA-00955: name is already used by an existing object

**Output:**

SQL> call greeting();

Hello World

Call completed.

SQL>

**1.4 Program:**

SQL> create or replace procedure greetings

2 AS

3 begin

4 dbms\_output.put\_line('abc');

5 end;

6 /

Procedure created.

**Output:**

SQL> call greeting();

Hello World

Call completed.

**1.5 Program:**

SQL> create or replace procedure KruRutu

2 AS

3 begin

4 dbms\_output.put\_line('hello World');

5 end;

6 /

Procedure created.

**Output:**

SQL> call KruRutu();

hello World

Call completed.

SQL>

**2. Create a Stored procedure and call it.**

**2.1 Program:**

SQL> create or replace procedure even\_odd(n IN number)

2 IS

3 begin

4 if mod(n,2)=0 then

5 dbms\_output.put\_line('NO. is even'||n);

6 else

7 dbms\_output.put\_line('NO. is odd'||n);

8 end if;

9 end;

10 /

Procedure created.

**Output:**

SQL> call even\_odd(10);

NO. is even10

Call completed.

SQL> call even\_odd(9);

NO. is odd9

Call completed.

**2.2 Addition of two numbers using in out keyword.**

**Program:**

SQL> create or replace procedure Sum\_no(n IN number,m IN number,k OUT number)

2 AS

3 begin

4 k:=n+m;

5 end;

6 /

Procedure created.

SQL> declare

2 R number;

3 begin

4 sum\_no(4,5,R);

5 dbms\_output.put\_line('sum= '||R);

6 end;

7 /

**Output:**

sum= 9

PL/SQL procedure successfully completed.

**2.3Multiplication of two numbers using in out keyword.**

**Program:**

SQL> create or replace procedure mul(m in number,n in number,c out number) is

2 begin

3 c:=m\*n;

4 end;

5 /

Procedure created.

SQL> declare

2 r number;

3 begin

4 mul(5,5,r);

5 dbms\_output.put\_line('mult='||r);

6 end;

7

8 /

**Output:**

mul=25

PL/SQL procedure successfully completed.

**3. Create a procedure which inserts student details in student table.**

**Program:**

SQL> create table stud(sid number,name varchar2(10),class varchar2(10),course v

archar2(20),b\_date date);

Table created.

SQL> create or replace procedure

2 insert\_into\_stud(sid in number,sname in varchar2,class in varchar2,course

in varchar2,b\_date in date)

3 is

4 Begin

5 insert into stud values(sid,sname,class,course,b\_date);

6 End;

7 /

Procedure created.

SQL> declare

2 sid number;

3 sname varchar2(10);

4 class varchar2(10);

5 course varchar2(20);

6 b\_date date;

7 Begin

8 sid:=&sid;

9 sname:=&sname;

10 class:=&class;

11 course:=&course;

12 b\_date:=&b\_date;

13 insert into stud7 values(sid,sname,class,c

14 End;

15 /

OUTPUT:-

Enter value for sid: 1

old 8: sid:=&sid;

new 8: sid:=1;

Enter value for sname: 'abc'

old 9: sname:=&sname;

new 9: sname:='abc';

Enter value for class: 'sy'

old 10: class:=&class;

new 10: class:='sy';

Enter value for course: 'cs'

old 11: course:=&course;

new 11: course:='cs';

Enter value for b\_date: '25-jan-2017'

old 12: b\_date:=&b\_date;

new 12: b\_date:='25-jan-2017';

PL/SQL procedure successfully completed

Enter value for sid: 2

old 8: sid:=&sid;

new 8: sid:=2;

Enter value for sname: 'pqr'

old 9: sname:=&sname;

new 9: sname:='pqr';

Enter value for class: 'ty'

old 10: class:=&class;

new 10: class:='ty';

Enter value for course: 'cs'

old 11: course:=&course;

new 11: course:='cs';

Enter value for b\_date: '26-feb-2017'

old 12: b\_date:=&b\_date;

new 12: b\_date:='26-feb-2017';

PL/SQL procedure successfully completed.

SID NAME CLASS COURSE B\_DATE

--------- ---------- ---------- -------------------- ---------

1 abc sy cs 25-JAN-17

2 pqr ty cs 26-FEB-17

3 mno fy cs 27-MAR-17

4 xyz msc cs 22-AUG-17

5 efg bsc cs 23-SEP-17.

**4.A forward declaration of procedure**.

**Program:**

SQL> declare

2 v\_tempval binary\_integer:=5;

3 procedure B(p\_counter in out binary\_integer);

4 procedure A(p\_counter in out binary\_integer) is

5 begin

6 dbms\_output.put\_line('A('||p\_counter||')');

7 if p\_counter>0 then

8 B(p\_counter);

9 p\_counter:=p\_counter-1;

10 end if;

11 end A;

12 procedure B(p\_counter in out binary\_integer) is

13 begin

14 dbms\_output.put\_line('B('||p\_counter||')');

15 p\_counter:=p\_counter-1;

16 A(p\_counter);

17 end B;

18 begin

19 B(v\_tempval);

20 end;

21 /

**Output:**

B(5)

A(4)

B(4)

A(3)

B(3)

A(2)

B(2)

A(1)

B(1)

A(0)

PL/SQL procedure successfully completed.