**(1)Example1: Ex1(pl/sql Hello Program)**

declare

msg varchar2(20):='Hai Good Morning...!';

begin

dbms\_output.put\_line(msg);

end;

o/p:

Hai Good Morning...!

Statement processed.

0.01 seconds

**(2) Ex2(pl/sql arrays)**

declare

type countries is varray(5) of varchar(20);

country countries;

total integer;

begin

country:=countries('India','America','Japan','Australia','NewYork');

total:=country.count;

dbms\_output.put\_line('Total Countries:'||total);

for i in 1..total loop

dbms\_output.put\_line('Country Name:'||country(i));

end loop;

end;

/

**(3) Ex3(pl/sql procedure)**

create or replace procedure greetings

as

begin

dbms\_output.put\_line('Hello...proceudure');

end;

/

============================

Execute procedure as follows

============================

begin

greetings;

end;

/

**(4) Ex4(pl/sql procedure IN & OUT)**

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plsql procedure IN OUT parameters)

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declare

a number;

b number;

c number;

procedure findMax(x IN number,y IN number,z OUT number) is

begin

if x<y then

z:=x;

else

z:=y;

end if;

end;

begin

a:=25;

b:=15;

findMax(a,b,c);

dbms\_output.put\_line('Minimum of a,b is:'||c);

end;

/

===========================================================================

create or replace procedure insertUsers(id in number,name in varchar)

is

begin

insert into users values(id,name);

end;

/

**(5) Ex5(pl/sql functions)**

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pl/sql functions

================

declare

a number;

b number;

c number;

function add(x IN number,y IN number)

return number

is

z number;

begin

z:=x+y;

return z;

end;

begin

a:=10;

b:=20;

c:=add(a,b);

dbms\_output.put\_line('Addition is:'||c);

end;

/

**(6) Ex6(pl/sql cursors)**

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pl/sql Cursors--implicit cursor

================================

declare

noofrows number;

begin

update users set name='manasa' where id=102;

if sql%notfound then

dbms\_output.put\_line('No user selected');

elsif sql%found then

noofrows:=sql%rowcount;

dbms\_output.put\_line(noofrows||' user selected');

end if;

end;

/

========================================

select name from users where id=102;

================================

pl/sql Cursors--explicit cursor

================================

declare

uid users.id%type;

uname users.name%type;

cursor c\_users is

select id,name from users;

begin

open c\_users;

dbms\_output.put\_line('Id'||' '||'Name');

dbms\_output.put\_line('=======================');

loop

fetch c\_users into uid,uname;

exit when c\_users%notfound;

dbms\_output.put\_line(uid||' '||uname);

end loop;

close c\_users;

end;

/

(7)

================================

pl/sql Records

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Table-Based Records

The %ROWTYPE attribute enables a programmer to create table-based and cursorbased records.

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

declare

users\_rec users%rowtype;

begin

select \* into users\_rec from users where id=104;

dbms\_output.put\_line('User ID:'||users\_rec.id);

dbms\_output.put\_line('User Name:'||users\_rec.name);

end;

/