**PL/SQL**

**Basic Structure**

-- DECLARE

--   message varchar2(100):= 'Hello, World!';

-- BEGIN

--  dbms\_output.put\_line('WELCOME  '||message);

-- END;

-- DECLARE

-- NAME varchar2(20):='CHANDRA';

-- BEGIN

-- dbms\_output.put\_line('WELCOME '||NAME);

-- END;

**Employee Problem**

DECLARE

EID number(5):=101;

ENAME varchar2(20):='CHANDRA';

ESALARY number(20) default 5000;

BEGIN

dbms\_output.put\_line('EMPLOYEE ID: '||EID);

dbms\_output.put\_line('EMPLOYEE NAME: '||ENAME);

dbms\_output.put\_line('EMPLOYEE SALARY: '||ESALARY);

END;

**Input Taking From User In Pl/Sql**

DECLARE

N1 number(5);

N2 number(5);

BEGIN

dbms\_output.put\_line('ENTER THE VALUE FOR');

N1 := &N1;

dbms\_output.put\_line('ENTER THE VALUE FOR NUM2');

N2 := &N2;

dbms\_output.put\_line('ADDITION:  '||(N1+N2));

dbms\_output.put\_line('SUBSTRACTION:  '||(N1-N2));

dbms\_output.put\_line('MULTIPLICATION:  '||(N1\*N2));

dbms\_output.put\_line('DIVISION:  '||(N2/N1));

END;

**Fetching Data Type and Values From Another Table And Using**

create table tbl\_employee(eid number(10),ename varchar2(20),esalary number(10));

insert into tbl\_employee values(101,'Chandra',5000);

insert into tbl\_employee values(102,'Manu',12353);

insert into tbl\_employee values(103,'Raju',4000);

insert into tbl\_employee values(104,'Gowtham',7000);

select \*from tbl\_employee;

-- DECLARE

-- name tbl\_employee.ename%type;

-- salary tbl\_employee.esalary%type;

-- BEGIN

-- select ename,esalary into name,salary from tbl\_employee where eid=103;

-- dbms\_output.put\_line('employee name : '||name);

-- dbms\_output.put\_line('employee salary : '||salary);

-- end;

DECLARE

name tbl\_employee.ename%type;

salary tbl\_employee.esalary%type;

BEGIN

select ename,esalary into name,salary from tbl\_employee where eid=&eid;

dbms\_output.put\_line('employee name : '||name);

dbms\_output.put\_line('employee salary : '||salary);

end;

**--Nested Blocks**

DECLARE

v\_outer\_variable varchar2(20):='Global Variable';

BEGIN

DECLARE

v\_inner\_variable varchar2(20):='Local Variable';

BEGIN

dbms\_output.put\_line(v\_inner\_variable);

dbms\_output.put\_line(v\_outer\_variable);

END;

dbms\_output.put\_line(v\_outer\_variable);

END;

**--Conditional Statements**

**--if else**

DECLARE

num number(10);

num1 number(10);

BEGIN

num:=&num;

num1:=&num1;

if num>num1 then

dbms\_output.put\_line('Num is Greater');

else

dbms\_output.put\_line('Num1 is Greater');

end if;

END;

**--if elsif else**

DECLARE

num number(10);

num1 number(10);

num2 number(10);

BEGIN

num:=&num;

num1:=&num1;

num2:=&num2;

if num>num1 and num>num2 then

dbms\_output.put\_line('Num is Greater');

elsif num1>num and num1>num2 then

dbms\_output.put\_line('Num1 is Greater');

else

dbms\_output.put\_line('Num2 is Greater');

end if;

END;

**--Switch Case**

DECLARE

col char(1);

BEGIN

col:=&col;

case col

when 'r' then

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

when 'g' then

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

when 'b' then

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

else

dbms\_output.put\_line('UNKNOW COLOR');

end case;

END;

**Loops**

**--Simple Loop**

DECLARE

num pls\_integer;

rem pls\_integer default 0;

-- rev number(3) default 0;

BEGIN

num:=&num;

loop

rem:=rem\*10+mod(num,10);

-- rev:=rev\*10+rem;

num:=trunc((num/10),0);

exit when num = 0;

end loop;

dbms\_output.put\_line(rem);

end;

**--While Loop**

DECLARE

num pls\_integer;

rem pls\_integer default 0;

rev pls\_integer default 0;

BEGIN

num:=&num;

while num!=0

loop

rem:=mod(num,10);

rev:=rev\*10+rem;

num:=trunc((num/10),0) ;

end loop;

dbms\_output.put\_line(rev);

end;

**--For Loop in Forword Direction**

DECLARE

sum1 number(20) default 0;

x number(10) default 0;

BEGIN

for x in 1..11

loop

sum1:=sum1+x;

end loop;

dbms\_output.put\_line(sum1);

end;

**--For Loop in Reverse Direction**

DECLARE

sum1 number(20) default 0;

x number(10) default 0;

BEGIN

for x in reverse 1..11

loop

sum1:=sum1+x;

end loop;

dbms\_output.put\_line(sum1);

end;

**--Records**

create table tbl\_employee(eid number(10),ename varchar2(20),esalary number(10));

insert into tbl\_employee values(101,'Chandra',5000);

insert into tbl\_employee values(102,'Manu',12353);

insert into tbl\_employee values(103,'Raju',4000);

insert into tbl\_employee values(104,'Gowtham',7000);

select \*from tbl\_employee;

DECLARE

my\_rec tbl\_employee%rowtype;

BEGIN

select \* into my\_rec from tbl\_employee where eid=&eid;

dbms\_output.put\_line('Employee Id: '||my\_rec.eid);

dbms\_output.put\_line('Employee Name: '||my\_rec.ename);

dbms\_output.put\_line('Employee Salary: '||my\_rec.esalary);

end;