**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,'lakshmipathi',12345);

insert into tbl\_employee values(102,'shiva',16745);

insert into tbl\_employee values(103,'prasad',40000);

insert into tbl\_employee values(104,'omsai',5000);

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

outer\_variable varchar(20):='global variable';

begin

DECLARE

inner\_variable varchar(20):='local variable';

begin

dbms\_output.put\_line(outer\_variable);

dbms\_output.put\_line(inner\_variable);

end;

dbms\_output.put\_line(outer\_variable);

end;

**Conditional Statements**

**If-else**

Here we can use “elsif” in pl/sql;

**DECLARE**

**num1 number(10);**

**num2 number(20);**

**num3 number(10);**

**begin**

**dbms\_output.put\_line('enter the num1:');**

**num1:=&num1;**

**dbms\_output.put\_line('enter the num2: ');**

**num2:=&num2;**

**dbms\_output.put\_line('enter the num3: ');**

**num3:=&num3;**

**if num1>num2 and num1>num3 then**

**dbms\_output.put\_line('A is Big');**

**elsif num2>num1 and num2>num3 then**

**dbms\_output.put\_line('B is Big');**

**else**

**dbms\_output.put\_line('C is Big')**

**end if;**

**end;**

**Switch Condition**

declare

color char(1);

begin

dbms\_output.put\_line('enter the color :');

color:=&color;

case color

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('unknown color');

end case;

end;

**LOOPING CONDITIONS**

**SIMPLE LOOP**

declare

sum1 number(5) default 0;

x number(3) default 0;

begin

loop

sum1:=x+sum1;

x:=x+1;

exit when x=11;

end loop;

dbms\_output.put\_line(sum1);

end;

**WHILE LOOP**

declare

sum1 number(5) default 0;

x number(3) default 0;

begin

WHILE x<=11

LOOP

sum1:=x+sum1;

x:=x+1;

end loop;

dbms\_output.put\_line(sum1);

end;

**FOR LOOP**

declare

sum1 number(5) default 0;

x number(3) default 0;

begin

FOR x in 1..11

LOOP

sum1:=x+sum1;

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,'lakshmipathi',12345);

insert into tbl\_employee values(102,'shiva',16745);

insert into tbl\_employee values(103,'prasad',40000);

insert into tbl\_employee values(104,'omsai',5000);

select \*from tbl\_employee;

declare

my\_record tbl\_employee%rowtype;

begin

select \* into my\_record from tbl\_employee where eid=101;

dbms\_output.put\_line('employeee id :'||my\_record.eid);

dbms\_output.put\_line('employeee id :'||my\_record.ename);

dbms\_output.put\_line('employeee id :'||my\_record.esalary); end;