Regd. No.
Experiment No. 8. Regd. No
1 15 2 1601 Colo Wing Palic Vaniable, Archorad
Aim? - Wonite a PL/SQL Code Wing Basic Vaniable, Archorad
declarations, and egage of Assignment
INTRODUTION.
pi/sor stands for procedural language entension of
COI DISCO COMBINATION OF THE COM
-dwal securives of programming larguages to expense the
-dwal securiors of programming languages It was developed by Daele Corporation in the centy 90's to enhance the
Sociale eyes a pl/sol engine to process the pl/sol
Statement. A 1450 Cloc Cellins
((liew side) of in the chapuse (sin
Advantages of PL 15RL:
Plack Charles PLSOL CONSISTS OF PIOLES
Can be nested within each other Each book forms a unit of a
task of a logical module. Il sol Diving comme
· Brocedwal language Capability - PL SU Consiss of processes
· Brocedwal language Capability: - PL SOL Consists of procedure language Constants Such as Conditional Statements (if else
Statement 1 at C LOUIS & Commission of the Commi
· Better Performance.
efectements simultaneously as a single block, with any
andrew network traffic.
a Land Heimaling. Prist for is
effectively during the execution of a PLISOL program.

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Once an execution is cought, epecific actions can be taken
an exception, is caught, specific actions can be taken depe
-ding upon the type of the exception of it can be displayed
to the wer with a message
Syntax of PUSOL program?
Declare
Viconiable y
decimation;
Begin
Exceptable Statements;
end)
pl/Sal voniables Deloration.
-> To dedone anconables, you use anomable name followed
by the devatype and teaminated by a semicolon(;).
> you can also explicitly and a length Constraint to the
deva type within parantheses. The Kollowing illustrates.
- some expamples of declaring variables in a PLISOL
DECARE
n-employee id number:
y_first_name varchav 2(20);
BEGIN'
HULL;
END;

MIC College of Technology

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THURSDAY TOURISM
In PLISOL program, one of the most Common tests ;+ to
Select Values from Columns in a telble into a set of variable
In case the data types of Columns of the table changes,
you have to change the PLISOL program to make the types
of the variables Compatible with the new Changes.
PLISOL provides you with a very weful feature called
PLISOL provides you with a very weful feature called. Variable anchos: It onchows to the use of the 1/2 TYPE
keyword to declare a variable with the deuter type is
associated with a Column's duter type of a particular
Column in a table.
DECLARE
n_employed_id EMP. EMPHO'S TYPE;
V_first_nome EMP. ENAME & TYPE;
d-hire-dove EMP. HIREDATE / TYPE;
BEGIN
NULL
EHD;
PL/SOL variable assignment: In pl/SOL, to assign avail
Da variable to onother, you we the assignment.
PL/SOL vaniable assignment: In pl/SOL, to assign avail a vaniable to another, you use the assignment. Operatol (:=) which is a Colon (:) hollowed by the equal
Sign(=)
DECLARE

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	THEORETT THEORY	
n employee id	EMP. EMPNO : TYP	₽',
V first name	EMPENAME TY	PEZ
d-hire-dute	EMP.HIREDATE XT	YPE
BEGIN		
V-Rirst name;	= 1 Balu';	
n employee id	·= 8000;	
d-hire-dova:	= to_ deute ('19960101	, AAAAWWDDP);
END;		
/		
	All the series	
SET SERVEROUTP	IT ON_SIRE 100000,	
DECLARE	TOURNUS SOURCES	DP ²
n-employee-id	EMP, EMPHO'S T	YPE;
V-Rirst_name	EMP. EHAME %	
₩ _ hire - date	EMP. HIREDATE	% TYPE;
BEGIN		
SELECT EMPI	10, ENAME, HIREDA	ATE INTO
n-employee id,	V-fixt_name, d-1	hine_clase FROM
emp WHERE	MPNO = 9934:	
DBMS OUTPUT.	PUT_LINE ('Employed PUT_LINE (n_employed PUT_LINE (d_hine	e pelais');
DBMS_OUTPUT	PUT LINE (n-empl	oyee -id):
DBMS_OUTPUT	PUT_ LIHE (d_ hine	-deute);
EHD;		

Owpuri-Employee petails 7934 MILLER 23-JAH-82

Experiment No. 9.
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Aims'- While a pulcou
Aims: - While a pl/SOL Code Bind and Substitution Variable
y ITA PLISOL.
1. Substitution Vaniables
The clue here is the name "stabstitution" It relates
to values being substated into the code before it is sub
mitted to the delabore
These substitutions are cornied out by the intil
These substitutions are Couried out by the interPace being used. In this example we're going to use SOL *
plus as our interface.
DUM INTERIFACE.
Conecite 8) sneplace Runction myth snepon varcharz is
V-Crome VWICIGVZ Z617
begin STATION STATIONS
Select dname into V-dname Rrom dept where deptno=
4 p-deptno;
metun 1/- drame!
end',

eutput;=
3017
Enten Value los p-deptno: 20
Old 7: where deptno= &p-deppno;
new 7: where deptno= 20;

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STANDOSS TRANSPORT TRANSPO
Write a PLISOL block using SQL and Control structures in PL/SOI.
Conditional statements in PL/SOL'-
As the name implies, PLISOL Supports programming language leatury
like Conditional statements, iterative Statements. The programming
constaucts are similar to how you see in programming language
like javara and c++.
IF THEN ELGE STATEMENT!
1) IF Condition THEN Statement 1;
ELSE
statement 2;
ENDIF;
2) IF Condition I THEN Statement 1; Stevenews;
FISIF Conditions THEN STRINGS DUCATION STRINGS
Statement 3; ELSE MOUSIEN MAISE
Statement U; EHD
LOOPS in PL/SOL: There are three types of loops in Sol/pl.
simple eup. 4) Simple cup is used when a set of statement is
to be executed at lear one before the loop teriminates. An Exit
Concernor mac be specifica in the loop.
J. simple loop 2. while loop 3. For loop. Simple loop: A simple loop is used when a set of statemant is to be executed at least one before the loop teriminates. An Exit Condition must be specified in the loop.

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Deliver to the same	THE PARTY HOUSE	
Syntax:		
LOOP EXIT:	stalements;	
E OF EXIT WHEN C	iondition; y	
		0 —
2. while loop: A	WHILE LOOP is used	when a set of statements
has to be execute	ed as long as a Con	dition is tome. The
Condition is evalu	late at the beginning	g of each iteration.
The iteration unti	il the Condition become	remfalse.
Syntax:- W	HILE acondition	
0	10	
OF	>	
	tement	
5;	END STATIONS STATIONS STATION	222
10	OP: ANDUSTRY STREET IND	USIRY
3. FOR LOOP: A	FOR LOOP is used to	exclute a set of Stateman
la a pre-determ	med no of times. I	Trevoltion occurs blw the
stant and end	interger values give	n.
Syntal.		
FOR	Counter IN Val 1. V	al 2
	10	
OP		
State	Emeuts;	
) (00p)	

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Example -1:
White a PLISOL program to lind the Anithimetic operation by using
il, else, il, else
SET SERVEROUTPUT ON
SET VERIFY OFF
DUARE
a number(3):=49;
b number(3): = 4b;
$ch \ number(3)! = \lambda(h)$
Tfnumber(4);
BEGIN
IF Ch=1 THEN
7: = a+b; EDUCATION EDUCATION
DB MS_OUTPUT. PUT_LINE ('Addition, 11/1x);
ELGIF Ch=2 THEN INDUSTRY STABIOSIS INDUSTRY
1;=a=b; (# r=a-b;)
DBMS_OUTPUT. PUT_LINE ('subtraction: "118);
ELSIF Ch=03 THEN
Y',=a*b',
DBMS-OUTPUT. PUT_LINE ('MW Hiplication: 'IIY);
ELSIF Ch= 4THEN
r;=a#b;
DBMS_OUTPUT. PUT_LINE (Division: 'IIY);
ELSIF ch=5 THEN
r; = mod (0,b)

Experiment No.	пини	Regd. No	
	THE PARTY OF THE P		7 13
DBMS_OUTPUT.	PUT_LINE ('Remainde	er : 'IIY);	
ELSE			
	T_LINE ('Invalid cho	ice:");	
END IF;			
END;			
1			
Ea-2: White o	uPL/SQL Program o	on Simple Loop.	
SET SERVE		, , ,	
SET YRIFY			
DCLARE			
i number(3);		
n number(s		DIFFERENCE	
BEGIN	SYLLIOSIS CONCATOR SY	232018b	
i:=1;	INDUSTRY STANGES	NDUSTRY	
LOUP	January .		
	S OUTPUT. PUT-LI	ME(i);	
1:=1-			
	17N)		
END LOOP)			
END;			
1			

Out put!=

Enter value for a:10

Enter Value for b:8

Enter value for ch: 1

Addition:18.

output; Enter value for n:5
1
2
3
4



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Eg-3:- Wanite a PL/SQL prognom on while loop
SET SERVEROUT PUT ON
SET YERIFY OFF
DIARE
; number(3);
n number(3)! = &n!
BEGIN
7:1;
WHILE iz=n
LOOP
DBMS_OUTPUT.PUT_LINE(i);
ブページャン (井の): 1+1): 100000000000000000000000000000000000
END LOOP! STATIONS STATIONS
END; DEDUSTRY SPENISS INDUSTRY
/ VIDUSTEY
Example-4: White a PL/SOL program on lon loop
SET SERVEROUTPUT ON
SET VERIFY OFF
DECLAURE
$n \text{number}(3) = \{ (n) \}$
BEGIN
FOR ; IN 1
LOOP DBMS - OUT PUT PUT LINE (1);
CHD (OOP)
CAD' Devineni Venkete Deve & D. Him C. I.

Output:

Enter value for n: 3

1
2

OWPW: Enter value for n:3 1 2