Experiment No: 9

Topic:	Study basics of PL/SQL and implement any one program in PL/SQL.
Prerequisite:	Knowledge of SQL, PL/SQL syntax.
Mapping With COs:	CSL402.5
Objective:	Learn PL/SQL and implement one program in PL
Outcome:	After completion of this lab, the student should be able to: 1. - Explain the purpose of PL/SQL 2. - Learn basics of PL/SQL 3. - Implement program in PL/SQL
Instructions:	1. This experiment is a compulsory experiment. All the students are required to perform experiment individually. 2. Study basics of PL/SQL and implement any one program in PL/SQL. 3. Self Learning based Experiment 4. Sample programs: Factorial , Maximum and minimum of 3 numbers, Number divisi 5-7, Area of Square-Rectangle-Circle, Perimeter of Square-Rectangle-Circle, Is given year is leap whether number is palindrome-prime or not, etc. NOTE: Students can select any topic but the topic should be unique throughout the SE Class. Before implementation, Submit your topic to your subject in-charge.
	For Submissions:

Deliverables:	**SQL Worksheet** 1 declare 2 n number; 3 m number; 4 rev number:=0; 5 r number; 6 begin 7 n:=12321; 8 m:=n; 9 while n>0 10 loop 11 r:=mod(n,10); 12 rev:=(rev*10)+r; 13 n:=trunc(n/10); 14 end loop; 15 16 if m=rev 17 then 18 dbms_output.put_line('number is palindrome'); 19 else 20 dbms_output.put_line('number is not palindrome'); 21 end if; 22 end; 23 / Statement processed. number is palindrome	Program ith output

SQL Worksheet

```
1  declare
2      n number;
3      m number;
4      rev number:=0;
5      r number;
6  begin
7      n:=2219;
8      m:=n;
9      while n>0
10     loop
11         r:=mod(n,10);
12         rev:=(rev*10)+r;
13         n:=trunc(n/10);
14     end loop;
15
16     if m=rev
17     then
18         dbms_output.put_line('number is palindrome');
19     else
20         dbms_output.put_line('number is not palindrome');
21     end if;
22 end;
23 /
```

```
Statement processed.
number is not palindrome
```

Conclusion:	Thus students understand PL/SQLand implemented programs in PL/SQL successfully.

References:	Put the reference of resources used to perform this experiment. (Referred textbooks/websites etc.)

Don Bosco Institute of Technology

Department of Computer Engineering

Assessment Rubric for Experiment No. 9

Title of Experiment : Study & implement program in PL/SQL
Year and Semester : 2nd Year and IVth Semester **Submission Date : 12/04/2022**
Name: Ashish Jha
Batch : B
Roll No. : 27

Sr. No.	Criteria	1 Marks	2 Marks	3 Marks	4 Marks	5 Marks

1	Execution	10-30% - Learned PL/SQL and executed programs in PL/SQL.	31-50% - Learned PL/SQL and executed programs in PL/SQL.	51-70% - Learned PL/SQL and executed programs in PL/SQL.	71-89% - Learned PL/SQL and executed programs in PL/SQL.	90-100% - Learned PL/SQL and executed programs in PL/SQL.
2	Documentation	20-39% of solutions are documented properly.	40-59% of solutions are documented properly.	60-79% of solutions are documented properly.	80-100% of the solution is documented properly.	
3	Viva	Students hardly answered.	Students have problems while answering.	Questions are answered fairly well.	Questions are answered completely and correctly.	
4	Submission on Time	Submitted after the given deadline	Submitted before the given deadline			