

CYCLE 2 – PL/SQL

Ex. No 13

AIM: Implement procedures, functions, and control structures using PL/SQL

Implementation of various control structures like IF-THEN, IF-THEN-ELSE, IF-THEN ELSIF, CASE, WHILE using PL/SQL

Procedural Language/Structured Query Language (PL/SQL) is an extension of SQL

Basic Syntax of PL/SQL

```
DECLARE
/* Variables can be declared here */
BEGIN
/* Executable statements can be written here */
EXCEPTION
/* Error handlers can be written here. */
END;
```

As we want output of PL/SQL Program on screen, before Starting writing anything type (Only Once per session)

```
SET SERVEROUTPUT ON
```

Questions

1. **PL/SQL to find addition of two numbers**
2. **Decision making with IF statement**
 - a. IF—ELSE
 - b. IF--ELSIF—ELSE
3. **Largest of three numbers**
4. **CASE statement**
 - a. Print Grade of students from result.
5. **Using Array**
 - a. Create array of integer, character
6. **Iterative Control**
 - a. While loop – Program to Print array elements
 - b. For loop – Program to Print array elements
 - c. Program to Sum of digits of a number
7. **Program**

Write a PL/SQL program to grade the student according to the following rules
Student(name ,rollno,mark1,mark2,mark3)

TOTAL MARKS GRADE

```
>=250 Distinction
180-250 First Class
120-179 Second Class
80-119 Third Class
<80 Fail
```

The result should be in the following Format
STUDENT NAME:

ROLL NO :
TOTAL MARKS :
GRADE :

Create table Stud(rollno int primary key,name char(10),mark1 float,mark2 float,mark3 float);
Insert into stud values(&rollno,'&name',&mark1,&mark2,&mark3);

ROLLNO NAME MARK1 MARK2 MARK3

1 aparna 80 90 78
2 amritha 90 92 81
3 binuja 23 18 20
4 cathy 49 50 50
5 danish 60 62 61
6 fayas 76 62 74

8. Program

Implement a sorting algorithm