

8. Write a PL/SQL block of Stored Procedure and Stored Function **proc_Grade** for following problem statement.

Write a Stored Procedure namely proc_Grade for the categorization of student. If marks scored by students in examination is ≤ 1500 and marks ≥ 990 then student will be placed in distinction category if marks scored are between 989 and 900 category is first class, if marks 899 and 825 category is Higher Second Class.

```
SQL> create table marks(rollno number(10),name varchar2(20),sub1 number,sub2
number,sub3 number);
Table created
```

```
SQL> insert into marks values(1,'Harshada',500,500,500);
1 row created.
```

```
SQL> insert into marks values(2,'mugdha',500,400,300);
1 row created.
```

```
SQL> insert into marks values(3,'vaibhavi',400,300,300);
1 row created.
```

```
SQL> insert into marks values(4,'shweta',200,300,400);
1 row created.
```

```
SQL> select * from marks;
```

ROLLNO	NAME	SUB1	SUB2	SUB3
1	Harshada	500	500	500
2	mugdha	500	400	300
3	vaibhavi	400	300	300
4	shweta	200	300	400

```
SQL> create table stud_marks(rollno number(10),name varchar2(20),total_marks
number(10));
Table created.
```

```
SQL> create table Result(rollno number(10),name varchar2(20),class varchar2(30));
Table created.
```

```
SQL> create procedure PROC_GRADE
```

```
is
```

```
sum number(20);
```

```
i number(10);
```

```
n number(10);
```

```
rollno number(10);
```

```
name1 varchar2(30);
```

```
totall number(10);
```

```
class1 varchar2(30);
```

```
s1 number;
```

```

s2 number;
s3 number;
begin
select count(*) into n from marks;
i := 0;
loop
i:=i+1;
select rollno into rollnol from marks where rollno=i;
select name into namel from marks where rollno=i;
select sub1 into s1 from marks where rollno=i;
select sub2 into s2 from marks where rollno=i;
select sub3 into s3 from marks where rollno=i;
totall:=a1+s2+s3+s4+s5;
if totall<=1500 AND totall>=990 then
classl:='DISTINCTION';
else
if totall<=989 AND totall>=900 then
classl:='FIRST CLASS';
else
if totall<899 AND totall>=825 then
classl:='HIGER SECOND CLASS';
else
classl:='PASS CLASS';
end if;
end if;
end if;
insert into stud_marks values(rollnol,namel,totall);
insert into result values(rollnol,namel,classl);
if i=n then
exit;
end if;
end loop;
end;
/

```

SQL> execute PROC_GRADE;
PL/SQL procedure successfully completed.

```

SQL> select * from stud_marks;

```

ROLLNO	NAME	TOTAL_MARKS
-----	-----	-----
1	Harshada	1500
2	mugdha	1200
3	vaibhavi	1000
4	shweta	900

SQL> select * from result;

ROLLNO	NAME	CLASS
1	Harshada	DISTINCTION
2	mugdha	DISTINCTION
3	vaibhavi	DISTINCTION
4	shweta	FIRST CLASS

SQL>