Package Example

Program:

Package Declaration

```
create or replace package pack
as
        function f(r number) return number;
        procedure grade(r number);
end;
```

Package Body

```
create or replace package body pack
as
        function f(r number)
        return number is
        t number;
        s studentm%rowtype;
        begin
        select physics_mark,chemistry_mark,maths_mark into
        s.physics_mark,s.chemistry_mark,s.maths_mark from studentm where
        reg_no=r;
        t := s.physics_mark+s.chemistry_mark+s.maths_mark;
        return t;
        end f;

        procedure grade(r number) is
        t1 number;
        total number;
        begin
        select physics_mark+chemistry_mark+maths_mark into total from
        studentm where reg_no = r;
        t1 := (total/150)*100;
        if t1>=80 and t1<=100 then
                dbms_output.put_line('Grade: A');
```

```
        elsif t1>=70 and t1<80 then
                dbms_output.put_line('Grade: B');
        elsif t1>=50 and t1<70 then
                dbms_output.put_line('Grade: C');
        elsif t1<50 then
                dbms_output.put_line('Grade: Fail');
        end if;
        end grade;
end;
```

Package Call

```
declare
        r number;
        t number;
begin
        r := &r;
        t := pack.f(r);
        dbms_output.put_line('Total mark is: '||t);
        pack.grade(r);
end;
```

Output:

```
SQL> /
Enter value for r: 69
old    5: r := &r;
new    5: r := 69;
Total mark is: 134
Grade: A

PL/SQL procedure successfully completed.
```