PROCEDURE PROGRAM II

AIM: Write a procedure in PL/SQL to check if employee is eligible for promotion depending on his period of service.

Table Used

ENO	ENAME	DNAME	DOJ	DESIG
100	Rajesh	MCA	25-MAY-22	Lecturer
102	Joy	ME	20-APR-22	Lecturer
104	Ranjith	EC	12-JAN-22	Lecturer
105	Mable	CSE	12-JAN-22	Lecturer

ALGORITHM

Step1: Start.
Step2: Define procedure des_ch taking parameter employee number (eid)
Step3: Declare variables dt (experience), jd(joining date), sd(system date).
Step4: Select doj field value from relation emp_proc into program variable jd for an employee (whose employee id is eid).
Step5: Select system date into program variable sd.
Step6: Compute the number of months between jd and sd dates.
Step7: Check if dt greater than or equal to 3,
if true then update design=ass.prof
Print “Your designation changed”.
Else
Print “you have to wait”.
Step8: Stop.

PROGRAM

```
create or replace procedure des_ch(eid IN varchar2)
IS
dt number;
jd date;
sd date;
Begin
select doj into jd from emp_proc where eno=eid;
select sysdate into sd from dual;
dt:=months_between(sd,jd) / 12;
if dt>=3 then
update emp_proc set desig='ass.prof' where eno=eid;
```

```
dbms_output.put_line('Your designation changed');
else
dbms_output.put_line('you have to wait');
end if;
End des_ch;
```

OUTPUT

```
SQL> execute des_ch(100);
you have to wait
PL/SQL procedure successfully completed.
```

FUNCTION PROGRAM I

AIM: Write a function in PL/SQL to find student grade by accepting student name as argument.

ALGORITHM

Step 1: Start
Step 2: Define function Sff taking parameter as name.
Step 3: Declare variables mk(mark) and g(grade).
Step 4: Select mark of student into an mk whose name had been passed.
Step 5: If mk greater than 90 then
g=x
Print “Grade:=X”.
Else if mk greater than 80 then
g=A
Print “Grade:=A”.
Else if mk greater than 60 then
g=B
Print “Grade:=B”.
Else if mk greater than 50 then
g=C
Print “Grade:=C”.
Else g=C.
Print “Grade:=F”.
Step 6: Return value to grade g.
Step 7: Stop

PROGRAM

```
create or replace function fgrade(n_name IN varchar2) return varchar2
IS
g varchar2(1);
mk number(3);
Begin
select mark into mk from student where name=n_name;
if mk>90 then
g:='x';
dbms_output.put_line('Grade: ' || g );
else if mk>80 then
g:='A';
dbms_output.put_line('Grade: ' || g );
else if mk>60 then
g:='B';
dbms_output.put_line('Grade: ' || g );
else if mk>50 then
g:='C';
dbms_output.put_line('Grade: ' || g );
else
g:='F';
dbms_output.put_line('Grade: ' || g );
end if;
end if;
end if;
end if;
return g;
End Sff;
```

OUTPUT

```
SQL> select fgrade('rakhesh') from dual;
SFF('NTINI')
------------------------------------
A
 Grade: A
```