

6. Write a PL/SQL program to display employee pay bill (using cursor **for** loop). Use a **Procedure** to receive basic pay and to compute DA, HRA, Tax, PF, Gross Pay and Net Pay (Use OUT). Base table contains the following columns EMPNUM, EMPNAME, and BASICPAY. Insert 3 records. Allowances are computed as follows:

EMPLOYEE		
BASICPAY	DA	HRA
<=20000	35% of BASIC	8% of BASIC
>20000 & <=30000	38% of BASIC	9% of BASIC
>30000 & <=40000	40% of BASIC	10% of BASIC
>40000	45% of BASIC	10% of BASIC

GROSS = BASIC + DA + HRA. PF = 12% of Gross or Rs. 2000 whichever is minimum. PT = Rs. 100 up to Gross is 25,000 else Rs. 200. NET = GROSS – (PF + PT).

Print Pay slip as follows:

```

=====PAY SLIP=====
EMPLOYEE NUMBER      :1001      EMPLOYEE NAME   :ASHRAY
BASIC PAY            :25000      PROVIDENT FUND  :2000
DEARNESS ALLOWANCE  :9500       PROFESSIONAL TAX:200
HOUSE RENT ALLOWANCE:22500      GROSS PAY       :57000
NET PAY              :54800
*****

```

6.1 Creating the table and describing its structure

```

CREATE TABLE EMPLOYEE
(
  EMPNUM INTEGER PRIMARY KEY,
  EMPNAME VARCHAR(10) NOT NULL,
  BASICPAY NUMBER(10, 2) NOT NULL
);

```

Output

Table created.

Description of EMPLOYEE table.

```

DESCRIBE EMPLOYEE;          or          DESC EMPLOYEE;

Name                        Null?                          Type
-----
EMPNUM                      NOT NULL                       NUMBER(38)
EMPNAME                     NOT NULL                       VARCHAR2(10)
BASICPAY                    NOT NULL                       NUMBER(10,2)

```

6.2 Loading data into the table

```

INSERT INTO EMPLOYEE VALUES(1001, 'ASHRAY', 25000);
INSERT INTO EMPLOYEE VALUES(1002, 'NAYANA', 32000);
INSERT INTO EMPLOYEE VALUES(1003, 'TARUN', 57000);

```

Output

3 rows created.

Displaying the values inserted into the EMPLOYEE table.

```

SELECT *
FROM EMPLOYEE;

```

EMPNUM	EMPNAME	BASICPAY
1001	ASHRAY	25000
1002	NAYANA	32000
1003	TARUN	57000

6.3 PL/SQL Program

```

SET SERVEROUTPUT ON;

DECLARE
cursor C is select EMPNUM, EMPNAME, BASICPAY from EMPLOYEE;
EMPNO EMPLOYEE.EMPNUM%TYPE;
ENAME EMPLOYEE.EMPNAME%TYPE;
BASIC EMPLOYEE.BASICPAY%TYPE;
DA NUMBER(10, 2);
HRA NUMBER(10, 2);
PT NUMBER(10, 2);
PF NUMBER(10, 2);
GROSS NUMBER(10, 2);
NET NUMBER(10, 2);

BEGIN
open C;
loop
    fetch C into EMPNO, ENAME, BASIC;
    EXIT WHEN C%NOTFOUND;
    if (BASIC <=20000) then
        DA:=BASIC*0.35;
        HRA:=BASIC*0.8;
    elsif (BASIC >20000 AND BASIC <=30000) then
        DA:=BASIC*0.38;
        HRA:=BASIC*0.9;
    elsif (BASIC >30000 AND BASIC <=40000) then
        DA:=BASIC*0.40;
        HRA:=BASIC*0.10;
    elsif (BASIC >40000) then
        DA:=BASIC*0.45;
        HRA:=BASIC*0.10;
    end if;
    GROSS:=BASIC+DA+HRA;
    PF:=GROSS*0.12;
    if (PF>=2000) then
        PF:=2000;
    end if;
    if (GROSS<=25000) then
        PT:=100;
    else
        PT:=200;
    end if;
    NET:=GROSS-(PF+PT);
    dbms_output.put_line('=====PAY SLIP=====');

```

```

dbms_output.put_line('EMPLOYEE
NUMBER' || chr(09) || chr(09) || ':' || EMPNO || chr(09) || chr(09) || 'EMPLOYEE
NAME' || chr(09) || ':' || ENAME);
dbms_output.put_line('BASIC
PAY' || chr(09) || chr(09) || ':' || BASIC || chr(09) || chr(09) || 'PROVIDENT FUND' || chr(09) || ':' || PF);
dbms_output.put_line('DEARNESS
ALLOWANCE' || chr(09) || ':' || DA || chr(09) || chr(09) || 'PROFESSIONAL TAX' || ':' || PT);
dbms_output.put_line('HOUSE          RENT          ALLOWANCE' || chr(09) || ':' || HRA || chr(09)
|| chr(09) || 'GROSS PAY' || chr(09) || ':' || GROSS);
dbms_output.put_line('NET PAY' || chr(09) || chr(09) || chr(09) || ':' || NET);
dbms_output.put_line('*****');
end loop;
close C;

END;
/

```

Output

SQL> @"EMP.SQL"

```

=====PAY SLIP=====
EMPLOYEE NUMBER      :1001          EMPLOYEE NAME      :ASHRAY
BASIC PAY            :25000          PROVIDENT FUND     :2000
DEARNESS ALLOWANCE   :9500           PROFESSIONAL TAX   :200
HOUSE RENT ALLOWANCE :22500          GROSS PAY         :57000
NET PAY              :54800
*****
=====PAY SLIP=====
EMPLOYEE NUMBER      :1002          EMPLOYEE NAME      :NAYANA
BASIC PAY            :32000          PROVIDENT FUND     :2000
DEARNESS ALLOWANCE   :12800         PROFESSIONAL TAX   :200
HOUSE RENT ALLOWANCE :3200           GROSS PAY         :48000
NET PAY              :45800
*****
=====PAY SLIP=====
EMPLOYEE NUMBER      :1003          EMPLOYEE NAME      :TARUN
BASIC PAY            :57000          PROVIDENT FUND     :2000
DEARNESS ALLOWANCE   :25650         PROFESSIONAL TAX   :200
HOUSE RENT ALLOWANCE :5700           GROSS PAY         :88350
NET PAY              :86150
*****

```

PL/SQL procedure successfully completed.

Date of Submission
Signature of the Lecturer

Remarks