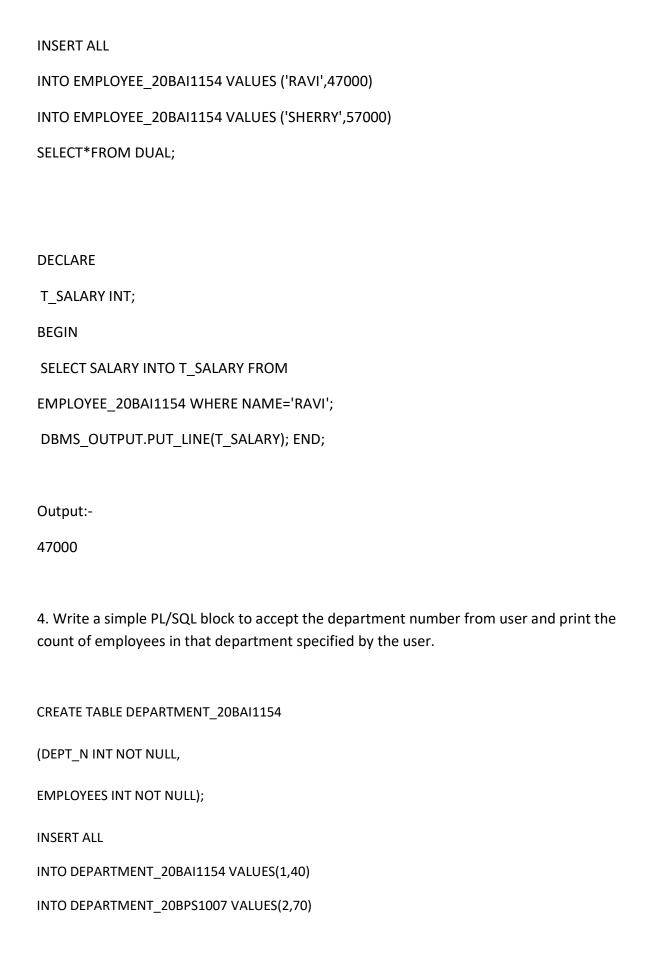# ASSIGNMENT-7

PL/SQL

Name: Shangirne Kharbanda

Registration Number: 20BAI1154

Slot : L47 + L48

1. Write a simple PL/SQL Block to print Hello World.

```
DECLARE
 WORD_1154  VARCHAR2(20);
BEGIN
 WORD_1154:='Hello World';
 DBMS_OUTPUT.PUT_LINE(WORD_1154);
 END;
```

Output:-

Hello World

2. Write a simple PL/SQL block to accept two numbers from user and perform all four basic mathematical operations.

```
DECLARE
 NO1_1154  INT;
 NO2_1154  INT;
 RESULT_1154 INT;
BEGIN
 NO1_1154:=10;
```

```
 NO2_1154:=20;

 RESULT_1154:=NO1_1154 + NO2_1154;

 DBMS_OUTPUT.PUT_LINE(RESULT_1154);

 END;
```

Output:-

30

```
DECLARE

NO1_1154  INT;

 NO2_1154  INT;

 RESULT_1154 INT;

BEGIN

 NO1_1154:=60;

 NO2_1154:=10;

 RESULT_1154:=NO1_1154 - NO2_1154;

 DBMS_OUTPUT.PUT_LINE(RESULT_1154); END;
```

Output:-

50

```
DECLARE

 NO1_1154  INT;

 NO2_1154  INT;

 RESULT_1154 INT;

BEGIN

 NO1_1154:=40;
```

```
 NO2_1154:=10;

 RESULT_1154:=NO1_1154 * NO2_1154;

 DBMS_OUTPUT.PUT_LINE(RESULT_1154); END;
```

Output:-

400


```
DECLARE

 NO1_1154  INT;

 NO2_1154  INT;

 RESULT_1154 INT;

BEGIN

 NO1_1154:=50;

 NO2_1154:=10;

 RESULT_1154:=NO1_1154 / NO2_1154;
```


Output:-

5

3. Write a simple PL/SQL block to fetch the salary of employee named 'Ravi' from the Employee table.


```
CREATE TABLE EMPLOYEE_20BAI1154(

NAME VARCHAR2(20) NOT NULL ,

SALARY INT NOT NULL);
```

```
INSERT ALL

INTO EMPLOYEE_20BAI1154 VALUES ('RAVI',47000)

INTO EMPLOYEE_20BAI1154 VALUES ('SHERRY',57000)

SELECT*FROM DUAL;
```

```
DECLARE

 T_SALARY INT;

BEGIN

 SELECT SALARY INTO T_SALARY FROM

EMPLOYEE_20BAI1154 WHERE NAME='RAVI';

 DBMS_OUTPUT.PUT_LINE(T_SALARY); END;
```

Output:-

47000

4. Write a simple PL/SQL block to accept the department number from user and print the count of employees in that department specified by the user.

```
CREATE TABLE DEPARTMENT_20BAI1154

(DEPT_N INT NOT NULL,

EMPLOYEES INT NOT NULL);

INSERT ALL

INTO DEPARTMENT_20BAI1154 VALUES(1,40)

INTO DEPARTMENT_20BPS1007 VALUES(2,70)
```

```
SELECT*FROM DUAL;


DECLARE
 DPT_NUM INT;
 EMP INT;
BEGIN
 DEPT_NO:=1;
 SELECT EMPLOYEES INTO EMP FROM
DEPARTMENT_20BAI1154 WHERE DEPT_NO='1';
 DBMS_OUTPUT.PUT_LINE(EMP);
END;
```

Output:-

40

5. Write a simple PL/SQL block to get the age of a person as input and determine if the person is eligible to vote or not.

```
DECLARE
 AGE INT:=21;
BEGIN
 IF AGE<18 THEN
  DBMS_OUTPUT.PUT_LINE('NOT ELIGIBLE');
 END IF;
  DBMS_OUTPUT.PUT_LINE('ELIGIBLE');
```

END;

Output:-

ELIGIBLE

6. Write a simple PL/SQL block to find the greatest of three given numbers.

```
DECLARE
 NO_1 INT;
NO_2 INT;
NO_3 INT;
BEGIN
   NO_1 INT :=45
   NO_2 INT:=17;
    NO_3 INT:=5;
 IF (NO_1>NO_2)AND(NO_1>NO_3) THEN
   DBMS_OUTPUT.PUT_LINE('NO_1 IS THE GREATEST');
 ELSIF (NO_2>NO_1) AND (NO_2>NO_3) THEN
   DBMS_OUTPUT.PUT_LINE('NO_2 IS THE GREATEST');
 ELSE
   DBMS_OUTPUT.PUT_LINE('NO_3 IS THE GREATEST');
  END IF;
   DBMS_OUTPUT.PUT_LINE('FOUND');


 END;
```


Output:-

NO_1 IS THE GREATEST

FOUND

7. Write a simple PL/SQL block to get the day of the week as input from user and print the corresponding day. 1 – SUN and 7-SAT.

```
DECLARE
 NUM INT;
BEGIN
 NUM:=3;
 IF NUM=1 THEN
  DBMS_OUTPUT.PUT_LINE('1-SUN');
 ELSIF NUM=2 THEN
  DBMS_OUTPUT.PUT_LINE('2-MON');
 ELSIF NUM=3 THEN
  DBMS_OUTPUT.PUT_LINE('3-TUE');
 ELSIF NUM=4 THEN
  DBMS_OUTPUT.PUT_LINE('4-WED');
 ELSIF NUM=5 THEN
  DBMS_OUTPUT.PUT_LINE('5-THUR');
ELSIF NUM=6 THEN
  DBMS_OUTPUT.PUT_LINE('6-FRI');
 ELSE
  DBMS_OUTPUT.PUT_LINE('7-SAT');
 END IF;
  DBMS_OUTPUT.PUT_LINE('DONE');
 END;
```

9. Write a simple PL/SQL block to print the sum of first n natural numbers using for loop.

```
DECLARE
 N NUMBER;
 I NUMBER:=1;
BEGIN
 N:=20;
 FOR I IN 1..(N-1)
  LOOP
  DBMS_OUTPUT.PUT_LINE(I);
  END LOOP;
END;
```

Output:-

1

2

3

4

5

6

7

8

9

11

12

13

14

15

16

17

18

19

10. Write a simple PL/SQL block to print the sum of first n natural numbers using while loop.

```
DECLARE
 N NUMBER;
 TOTAL NUMBER:=0;
 I NUMBER:=1;
BEGIN
 N:=10;
 WHILE (I<=N) LOOP
  TOTAL:=(TOTAL + I);
  I:=(I+1);
 END LOOP;
 DBMS_OUTPUT.PUT_LINE(TOTAL);
END;
```

Output:-

55