Name: Patel anuj EN.no:20012011077 Class: CE-3AB2

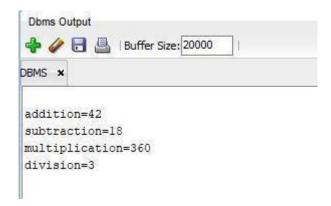
PRACTICAL: 6 PL / SQL PRACTICAL: 1

1.Write a pl/sql code for calculator. Accept two values from user and accept any operator like '+','-','*','/'.

```
Query: declare
a
number(5); b
number(5);
ans number(5);
begin a:=&a; b:=&b; ans:=a+b;
DBMS_OUTPUT.PUT_LINE('addition='||ans);
ans:=a-b;
DBMS_OUTPUT.PUT_LINE('subtraction='||ans);
ans:=a*b;
DBMS_OUTPUT.PUT_LINE('multiplication='||ans);
ans:=a/b;
DBMS_OUTPUT.PUT_LINE('division='||ans);
end;
```

Output:

Here, values of a=30 and b=12.

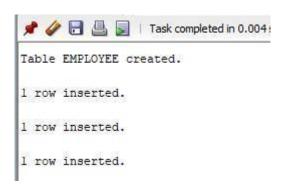


2. Write a pl/sql code for add 50% salary of 'Riya' and 70% salary of 'Rima' to salary of 'Rekha'.

Table: Employee

Name	Salary
Riya	10000
Rima	6000
Rekha	8000

create table employee(name varchar2(20), salary number(10)); insert into employee values('Riya',10000); insert into employee values('Rima',6000); insert into employee values('Rekha',8000); select *from employee;



	♦ NAME		
1	Riya	10000	
2	Rima	6000	
3	Rekha	8000	

Query: declare

R1 number(10);

R2 number(10);

R3 number(10);

begin select salary into R1 from employee where name='Riya'; select salary into R2 from employee where name='Rima';

R1:=((R1*50)/100);

R2:=((R2*70)/100);

select salary into R3 From employee where name='Rekha';

R3 := R3 + R1 + R2;

update employee set salary=R3 where name='Rekha'; end;

Output:



3. Write a pl/sql code to give maximum salary of Rima or Rekha to

Riya. Query: declare

R1 number(10); R2 number(10);

begin select max(salary) into R1 from employee where name='Rima' or

name='Rekha'; select salary into R2 from employee where name='Riya';

R2 := R2 + R1;

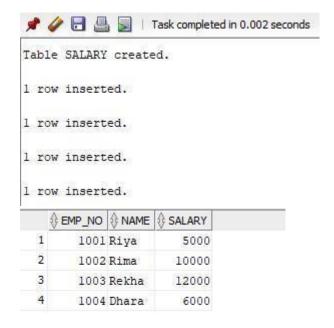
update employee set salary=R2 where name='Riya'; end;

Output:



4. Write a pl/sql code that will accept emp_no and debit amount from user. If Balance is below 500/- whenever you debit the amount then give error message. "Balance below 500/-"otherwise update the table.

create table salary(emp_no number(10),name varchar2(10),salary number(10)); insert into salary values('1001','Riya',5000); insert into salary values('1002','Rima',10000); insert into salary values('1003','Rekha',12000); insert into salary values('1004','Dhara',6000); select *from salary;



```
Query: declare emp number; amt number; bal number; new_bal number;
```

```
begin
emp:=&emp;
amt:=&amt;
```

select salary into bal from salary where emp_no = emp;

```
if amt>bal then DBMS_OUTPUT.PUT_LINE(' AMOUNT IS MORE THEN BALANCE...');
```

```
else new_bal:=bal-amt;
```

```
if(new_bal<500) then DBMS_OUTPUT.PUT_LINE('Balance below 500/-');
```

else

```
update Salary set salary=new_bal where emp_no = emp; DBMS_OUTPUT_PUT_LINE('Transaction Completed...'); end if; end if; end;
```

Output:

Here, Enter values for emp=1003 and amt=3000.

			1
	\$ EMP_NO	♦ NAME	SALARY
1	1001	Riya	5000
2	1002	Rima	10000
3	1003	Rekha	6500
4	1004	Dhara	6000

5. Write a pl/sql block for Factorial (use a) If and Goto statement b) for loop).

a)If and goto statement:

```
declare n number; fact number:=1; i
number;

begin n:=&n; <<Again>> if(n>=1)
then fact
:= fact*n; n:=n-1; GOTO
Again; end
if;
DBMS_OUTPUT_PUT_LINE('Factorial is: '|| fact); end;
```

Output:

```
Here, input is 4

Transaction Completed...

Factorial is: 24
```

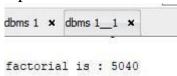
b)for loop:

```
declare n number; fact
number:=1;
i number;
begin n:=&n; for i in
1.. n
LOOP
fact:=fact*i; end LOOP;
```

DBMS_OUTPUT_PUT_LINE('factorial is: '||fact); end;

Output:

Here, input is 7



6. Write pl/sql code for following. If the salary of employee no 1001 is less than 6000 then change the salary to 6000. The salary change is to be recorded in the old_salary table with date on which salary changed.

Table: old_salary(emp_no,old_salary,change_date)

Table: Salary

Emp_no	Name	Salary
1001	Riya	5000
1002	Rima	10000
1003	Rekha	12000
1004	Dhara	6000

create table old_salary(emp_no number(10),old_salary number(10),change_date date); select *from old_salary;
Table OLD_SALARY created.

Query: declare emp number(10); slr number(10);

temp number(10); dt date;

begin

emp:=&emp; select salary into slr from salary where emp_no=emp;

temp:=slr; select sysdate into dt from dual;

if slr<6000 then

update salary set salary=6000 where emp_no=emp; insert into old_salary values(emp,temp,dt); end if; end;

Output:

- 8	∯ EMP_NO	OLD_SALARY	♦ CHANGE_DATE
1	1001	5000	14-12-21

	♦ EMP_NO	♦ NAME	SALARY
1	1001	Riya	6000
2	1002	Rima	10000
3	1003	Rekha	6500
4	1004	Dhara	6000