Assignment -7

PL/SQL

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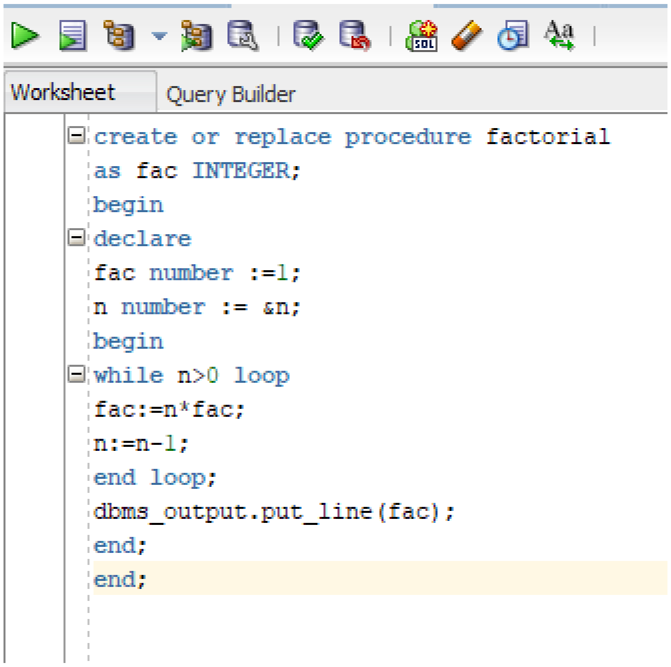
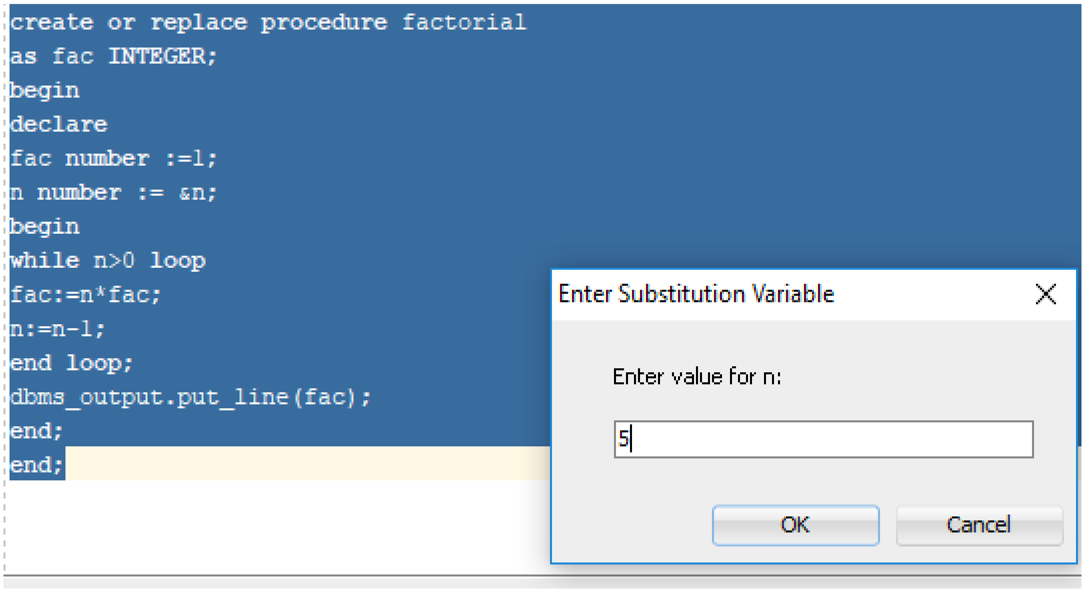
Id- 2016ucp1100

Batch-A(1,2)

1-Create a procedure to find factorial of number provided by user.

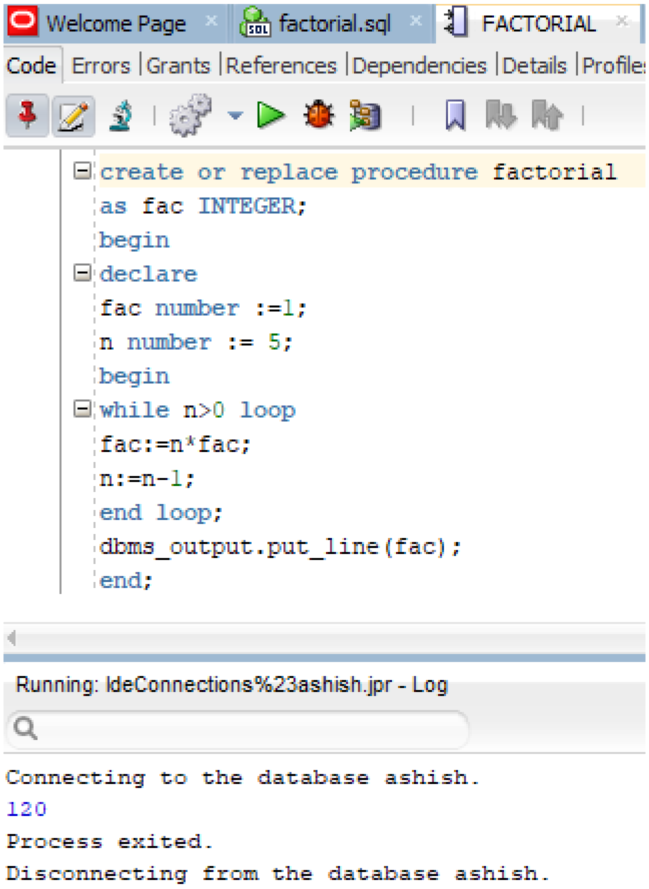


```
create or replace procedure factorial
as fac INTEGER;
begin
declare
fac number :=1;
n number := &n;
begin
while n>0 loop
fac:=n*fac;
n:=n-1;
end loop;
dbms_output.put_line(fac);
end;
end;
```



```
create or replace procedure factorial
as fac INTEGER;
begin
declare
fac number :=1;
n number := &n;
begin
while n>0 loop
fac:=n*fac;
n:=n-1;
end loop;
dbms_output.put_line(fac);
end;
end;
```

Enter value for n: 5

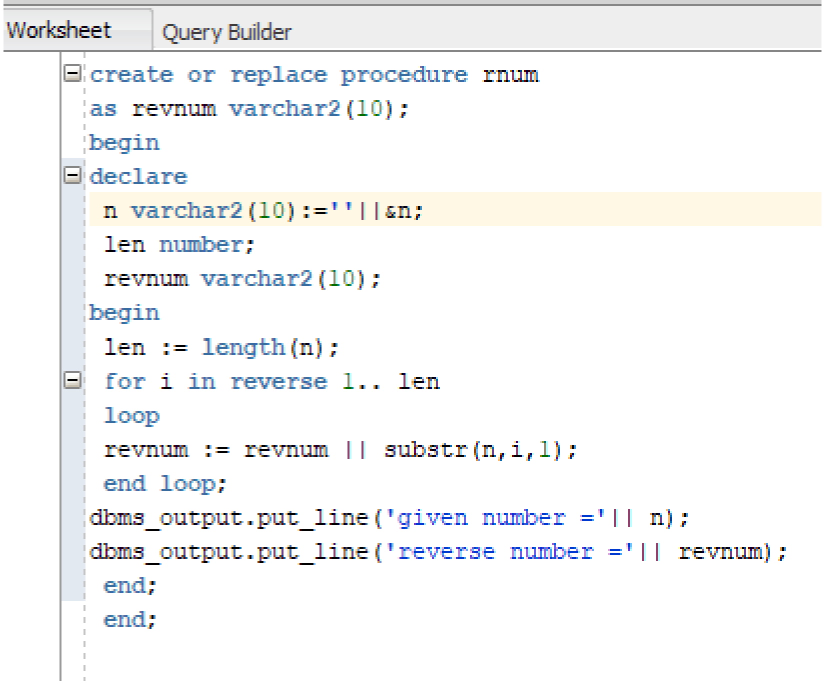


```
create or replace procedure factorial
as fac INTEGER;
begin
declare
fac number :=1;
n number := 5;
begin
while n>0 loop
fac:=n*fac;
n:=n-1;
end loop;
dbms_output.put_line(fac);
end;
```

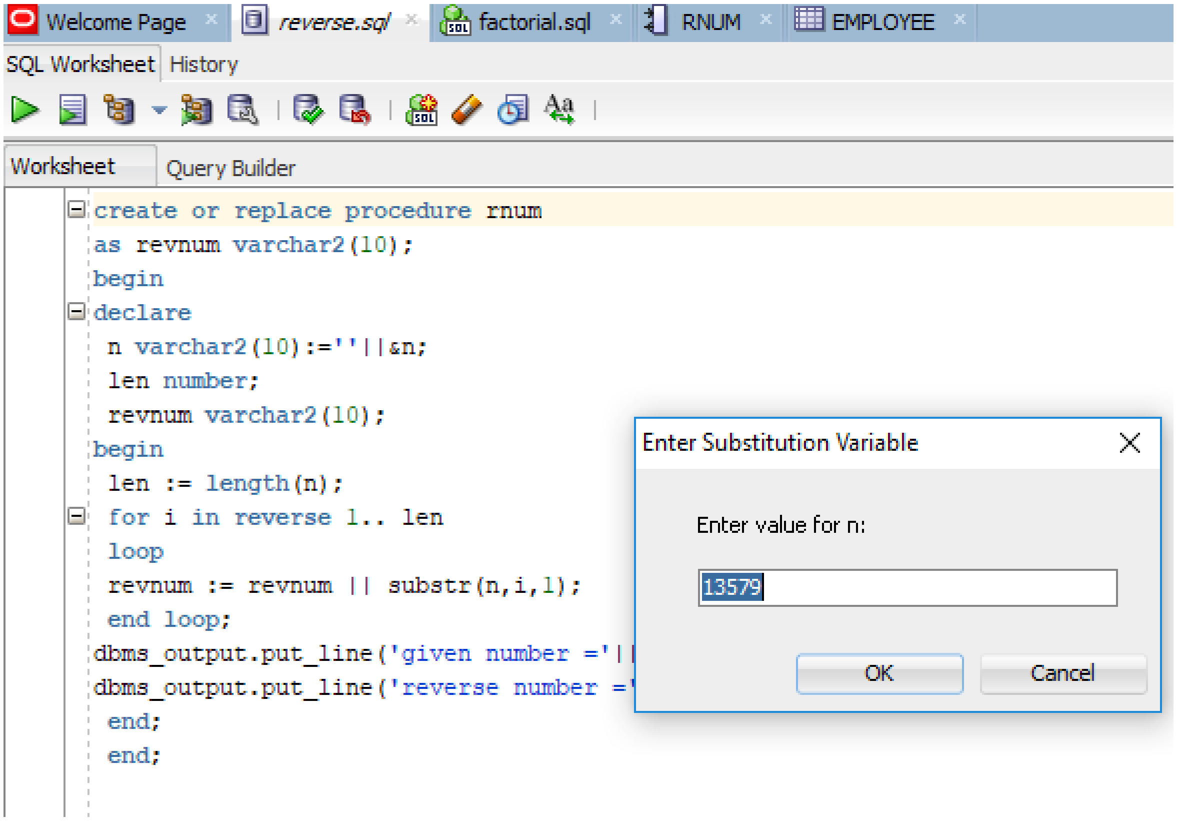
Running: IdeConnections%23ashish.jpr - Log

```
Connecting to the database ashish.
120
Process exited.
Disconnecting from the database ashish.
```

2-Procedure for reversing a number provided by user.



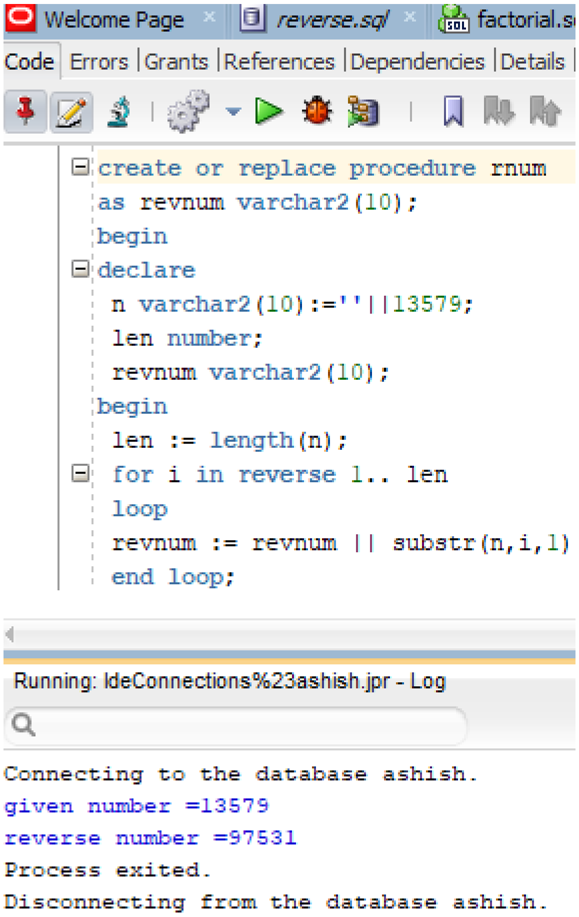
```
create or replace procedure rnum
as revnum varchar2(10);
begin
declare
 n varchar2(10):=''||&n;
 len number;
 revnum varchar2(10);
begin
 len := length(n);
 for i in reverse 1.. len
 loop
 revnum := revnum || substr(n,i,1);
 end loop;
dbms_output.put_line('given number ='|| n);
dbms_output.put_line('reverse number ='|| revnum);
 end;
 end;
```



```
create or replace procedure rnum
as revnum varchar2(10);
begin
declare
 n varchar2(10):=''||&n;
 len number;
 revnum varchar2(10);
begin
 len := length(n);
 for i in reverse 1.. len
 loop
 revnum := revnum || substr(n,i,1);
 end loop;
dbms_output.put_line('given number ='||
dbms_output.put_line('reverse number ='
 end;
 end;
```

Enter Substitution Variable

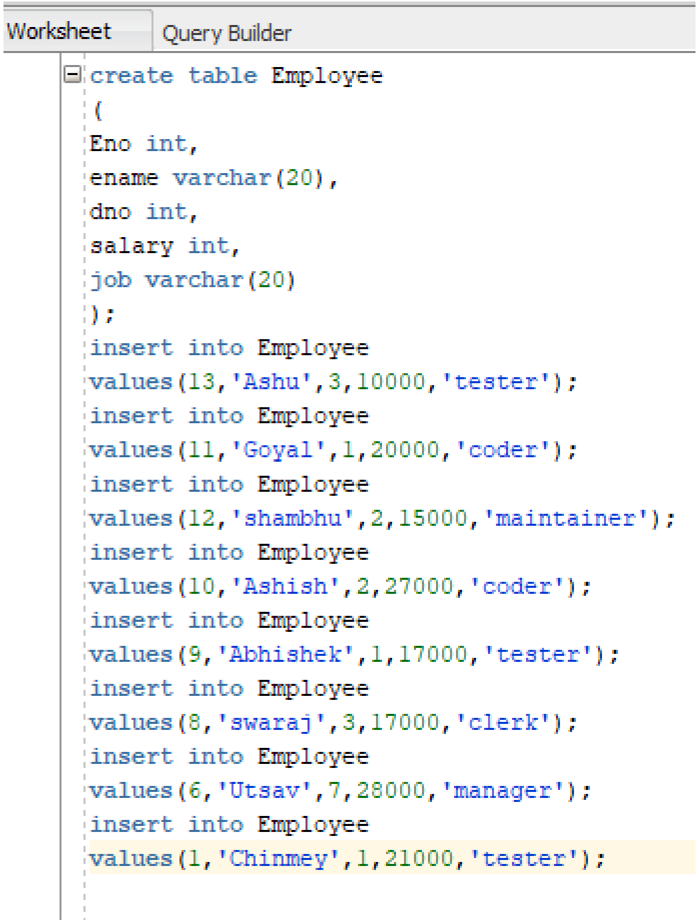
Enter value for n: 13579



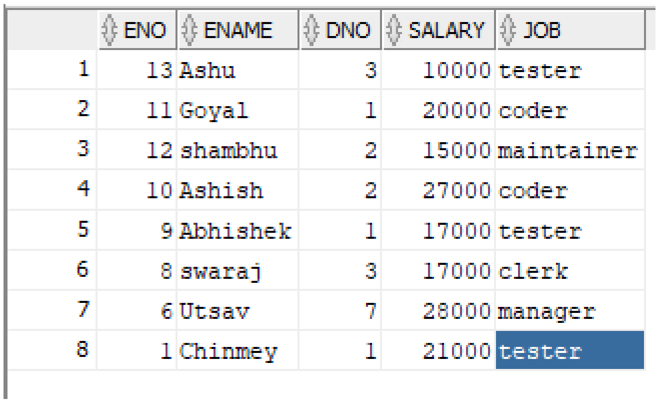
```
create or replace procedure rnum
as revnum varchar2(10);
begin
declare
 n varchar2(10):=''||13579;
 len number;
 revnum varchar2(10);
begin
 len := length(n);
 for i in reverse 1.. len
 loop
 revnum := revnum || substr(n,i,1)
 end loop;
```

```
Connecting to the database ashish.
given number =13579
reverse number =97531
Process exited.
Disconnecting from the database ashish.
```

Employee(Eno,ename,dno,salary,job)

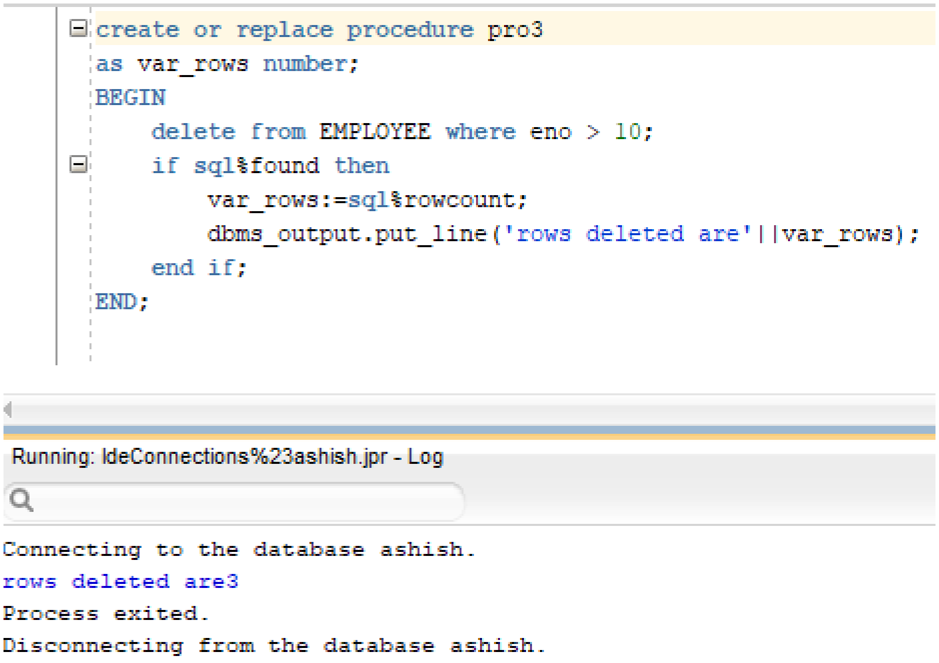


```
create table Employee
(
Eno int,
ename varchar(20),
dno int,
salary int,
job varchar(20)
);
insert into Employee
values(13,'Ashu',3,10000,'tester');
insert into Employee
values(11,'Goyal',1,20000,'coder');
insert into Employee
values(12,'shambhu',2,15000,'maintainer');
insert into Employee
values(10,'Ashish',2,27000,'coder');
insert into Employee
values(9,'Abhishek',1,17000,'tester');
insert into Employee
values(8,'swaraj',3,17000,'clerk');
insert into Employee
values(6,'Utsav',7,28000,'manager');
insert into Employee
values(1,'Chinmey',1,21000,'tester');
```



	ENO	ENAME	DNO	SALARY	JOB
1	13	Ashu	3	10000	tester
2	11	Goyal	1	20000	coder
3	12	shambhu	2	15000	maintainer
4	10	Ashish	2	27000	coder
5	9	Abhishek	1	17000	tester
6	8	swaraj	3	17000	clerk
7	6	Utsav	7	28000	manager
8	1	Chinmey	1	21000	tester

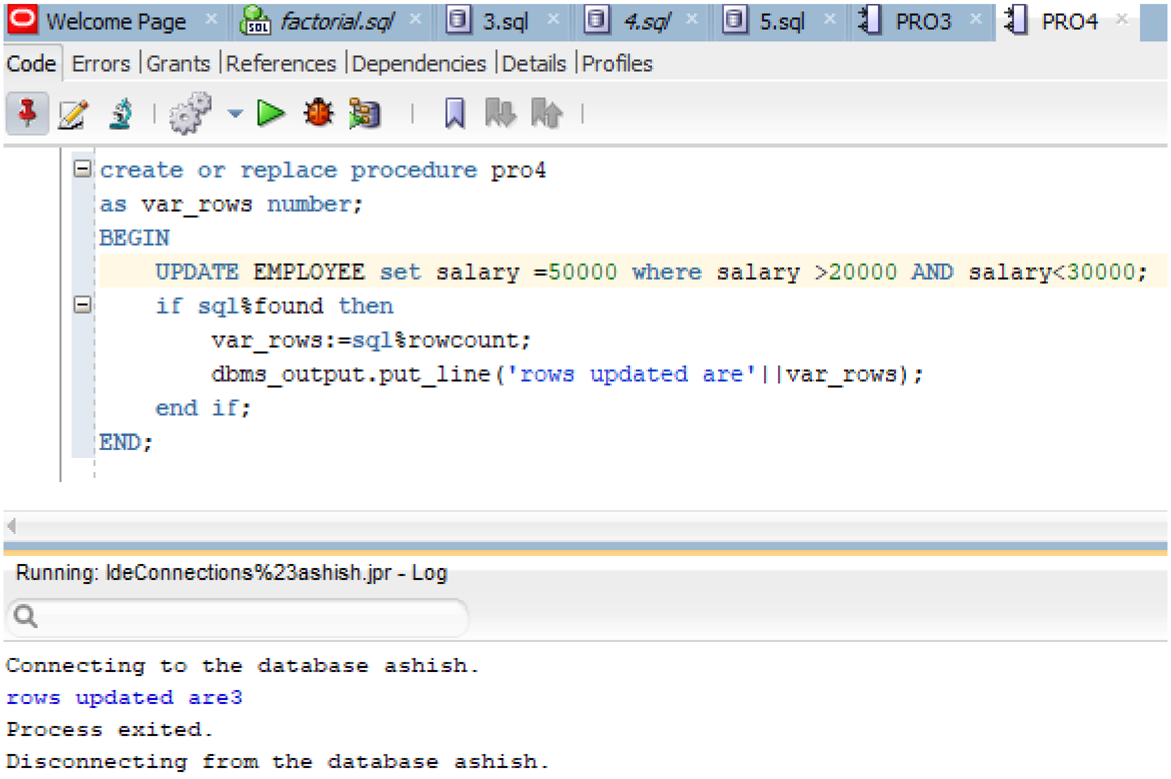
3-Delete tuples for employee where eid is greater than 10 and display number of rows affected.



```
create or replace procedure pro3
as var_rows number;
BEGIN
    delete from EMPLOYEE where eno > 10;
    if sql%found then
        var_rows:=sql%rowcount;
        dbms_output.put_line('rows deleted are'||var_rows);
    end if;
END;
```

```
Connecting to the database ashish.
rows deleted are3
Process exited.
Disconnecting from the database ashish.
```

4-Update record in table set salary =50000 where salary is greater than 20000 and less than 30000 And display number of rows affected.

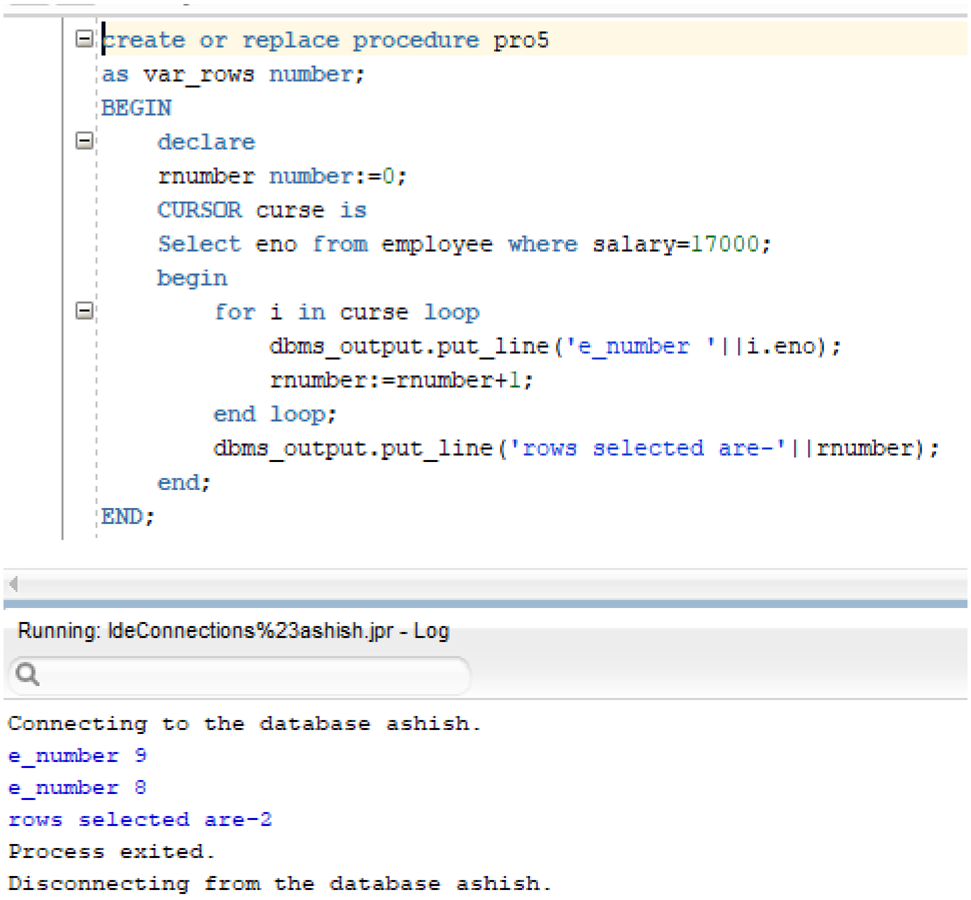


```
create or replace procedure pro4
as var_rows number;
BEGIN
    UPDATE EMPLOYEE set salary =50000 where salary >20000 AND salary<30000;
    if sql%found then
        var_rows:=sql%rowcount;
        dbms_output.put_line('rows updated are'||var_rows);
    end if;
END;
```

Running: IdeConnections%23ashish.jpr - Log

```
Connecting to the database ashish.
rows updated are3
Process exited.
Disconnecting from the database ashish.
```

5-Display the employee number and number of rows selected having salary equal to 17000.



```
create or replace procedure pro5
as var_rows number;
BEGIN
    declare
    rnumber number:=0;
    CURSOR curse is
    Select eno from employee where salary=17000;
    begin
        for i in curse loop
            dbms_output.put_line('e_number '||i.eno);
            rnumber:=rnumber+1;
        end loop;
        dbms_output.put_line('rows selected are-'||rnumber);
    end;
END;
```

```
Connecting to the database ashish.
e_number 9
e_number 8
rows selected are-2
Process exited.
Disconnecting from the database ashish.
```