TO INSERT VALUE THROUGH STORED PROCEDURE:

sqltest.sql

File Edit View

```
create or replace procedure add_dept
(id in dept.did%type, name in dept.dname%type, loc in dept.dloc%type)
is
begin
        insert into dept values(id,name,loc);
end;
/
```

```
SQL> set serveroutput on
SQL> edit sqltest

SQL> @sqltest

Procedure created.

SQL>
```

sqltest2.sql

File Edit View

```
declare
id number;
name varchar2(10);
loc varchar2(10);
begin
        id:=&id;
        name:=&name;
        loc:=&loc;
        add_dept(id,name,loc);
        dbms_output.put_line('Record added successfully');
end;
/
```

```
SQL> @sqltest2
Enter value for id: 6
old   6:        id:=&id;
new   6:        id:=6;
Enter value for name: 'csbs'
old   7:        name:=&name;
new   7:        name:='csbs';
Enter value for loc: 'admin'
old   8:        loc:=&loc;
new   8:        loc:='admin';
Record added successfully

PL/SQL procedure successfully completed.

SQL>
```

```
SQL> select * from dept;

       DID DNAME      DLOC
---------- ---------- ----------
         1 cse        admin
         2 it         admin
         3 ece        workshop
         4 eee        workshop
         5 ft         aero
         6 csbs       admin

6 rows selected.

SQL>
```

COUNTING THE NUMBER OF EMPLOYEES IN A PARTICULAR DEPT (USING OUT PARAMETER INSIDE A PROCEDURE)

sqltest.sql

File Edit View

```
create or replace procedure count
(dept_id in employee.did%type, c out number)
is
begin
        select count(*) into c from employee where did=dept_id;
end;
/
```

```
SQL> set serveroutput on
SQL> edit sqltest

SQL> @sqltest

Procedure created.

SQL>
```

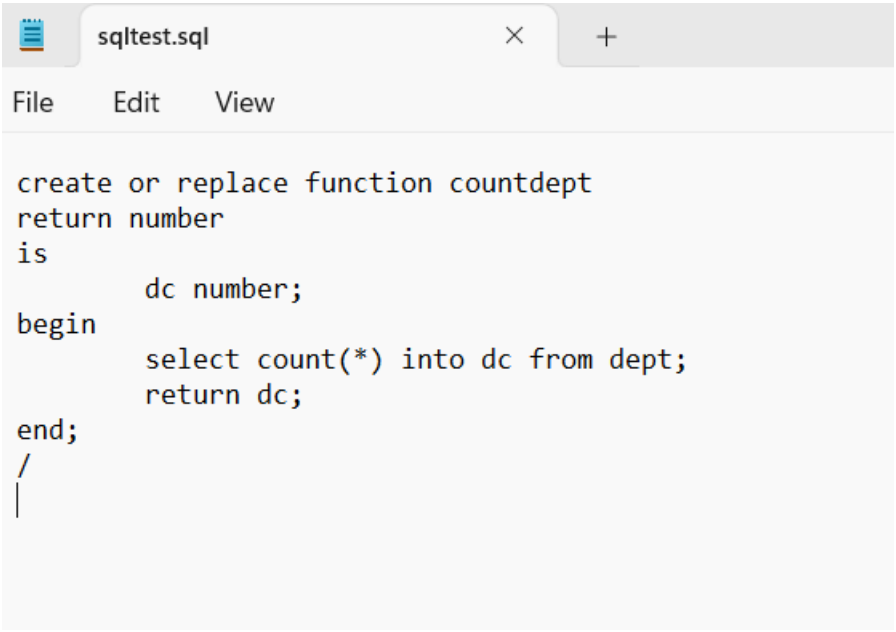
sqltest2.sql

File Edit View

```
declare
c_emp number;
d_id number;
begin
        d_id:=&d_id;
        count(d_id,c_emp);
        dbms_output.put_line('Number of employees: '||c_emp);
end;
/
```

```
SQL> edit sqltest2

SQL> @sqltest2
Enter value for d_id: 1
old   5:        d_id:=&d_id;
new   5:        d_id:=1;
Number of employees: 2

PL/SQL procedure successfully completed.

SQL> select * from employee;

        ID NAME                 DOJ          SALARY        DID
---------- -------------------- --------- ---------- ----------
       101 jack                 07-DEC-94      15655          1
       102 kay                  05-AUG-96      23000          3
       103 lisa                 14-OCT-91      25000          5
       104 ray                  21-NOV-97      11000          1
       105 alex                 28-SEP-96      16000          2

SQL>
```

COUNTING THE NUMBER OF DEPARTMENTS IN DEPT TABLE USING FUNCTION



sqltest2.sql

File Edit View

```
declare
begin
        dbms_output.put_line(countdept());
end;
/
```

```
SQL> select * from dept;

       DID DNAME      DLOC
---------- ---------- ----------
         1 cse        admin
         2 it         admin
         3 ece        workshop
         4 eee        workshop
         5 ft         aero
         6 csbs       admin

6 rows selected.

SQL> edit sqltest

SQL> @sqltest

Function created.

SQL> edit sqltest2

SQL> @sqltest2
6

PL/SQL procedure successfully completed.

SQL>
```

FACTORIAL OF A NUMBER USING FUNCTION

sqltest.sql

File Edit View

```
create or replace function fact(n number)
return number
is
 f number :=1;
begin
        for i in 1..n
        loop
                f:=f*i;
        end loop;
        return f;
end;
/
```

sqltest2.sql

File Edit View

```
declare
num number:=&num;
begin
        dbms_output.put_line(fact(num));
end;
/
```

```
SQL> edit sqltest

SQL> @sqltest

Function created.

SQL> edit sqltest2

SQL> @sqltest2
Enter value for num: 5
old   2: num number:=&num;
new   2: num number:=5;
120

PL/SQL procedure successfully completed.
```

AREA OF A RECTANGLE USING FUNCTIONS

sqltest.sql

File Edit View

```
create or replace function area(l number,b number)
return number
is
        a number;
begin
        a:=l*b;
        return a;
end;
/
```

sqltest2.sql

File Edit View

```
declare
length number:=&length;
breadth number:=&breadth;
a number;
begin
        a:=area(length,breadth);
        dbms_output.put_line('The area of the rectangle is :'||a);
end;
/
```

```
SQL> edit sqltest

SQL> @sqltest

Function created.

SQL> edit sqltest2

SQL> @sqltest2
Enter value for length: 12
old   2: length number:=&length;
new   2: length number:=12;
Enter value for breadth: 11
old   3: breadth number:=&breadth;
new   3: breadth number:=11;
The area of the rectangle is :132

PL/SQL procedure successfully completed.

SQL>
```