```
begin
        dbms_output.put_line('My first PLSQL program');
end;
/




--------------------------------------------------------------------------------
----------------------


declare
        a number;
        b number;
        c number;
begin
        a:=10;
        b:=20;
        c:=a+b;
        dbms_output.put_line('Sum is ' || c);
end;
/


----------------------------------------------------------------------------
declare
        price number;
        qty number;
        total number;
begin
        price:=&MRP;
        qty:=&units;
        total:=price*qty;
        dbms_output.put_line('Total is ' || total);
end;
/


----------------------------------------------------------------------------

 declare
        age number;
begin
        age:=&age;
        if age>=18
        then
                dbms_output.put_line('You can vote');
        else
                dbms_output.put_line('You can not vote');
        end if;
end;
/
```

```
--------------------------------------------------------------------------------
declare
        a number;
begin
        a:=&a;
        if a=1
        then
                dbms_output.put_line('Monday');
        elsif a=2
        then
                dbms_output.put_line('Tuesday');
        elsif a=3
        then
                dbms_output.put_line('Wednesday');
        else
                dbms_output.put_line('Sunday');
        end if;
end;
/


--------------------------------------------------------------------------------
declare
        pno number;
        nm varchar(10);
        comp varchar(10);
begin
        pno:=&pno;
        select name,company into nm,comp from stock where prodcd=pno;
        dbms_output.put_line('Name ' || nm);
        dbms_output.put_line('Company ' || comp);
end;
/
--------------------------------------------------------------------------------
declare
        town varchar(10);
        nm varchar(10);
begin
        town:='&town';
        select cname into nm from customers where city=town;
        dbms_output.put_line('Name ' || nm);
exception
        when no_data_found then
                dbms_output.put_line('No record found');
        when too_many_rows then
                dbms_output.put_line('Multiple records found');
end;
/
```

```
================================================================================
================================================================================
================
                PL/SQL
SQL*Plus: Release 10.2.0.1.0 - Production on Fri Dec 5 09:43:52 2025

Copyright (c) 1982, 2005, Oracle.  All rights reserved.

SQL> edit c:/oracle/prog1.sql

SQL> @ c:/oracle/prog1.sql
SP2-0640: Not connected
SQL> connect
Enter user-name: prince
Enter password:
Connected.
SQL> @ c:/oracle/prog1.sql

PL/SQL procedure successfully completed.

SQL> set serveroutput on
SQL> @ c:/oracle/prog1.sql
My first PLSQL program

PL/SQL procedure successfully completed.

SQL> start c:/oracle/prog1.sql
My first PLSQL program

PL/SQL procedure successfully completed.

SQL> ed c:/oracle/prog1.sql

SQL> ed prog2.sql

SQL> ed c:/oracle/prog2.sql

SQL> @ c:/oracle/prog2.sql
30

PL/SQL procedure successfully completed.

SQL> ed c:/oracle/prog2.sql

SQL> @ c:/oracle/prog2.sql
Sum is 30

PL/SQL procedure successfully completed.

SQL> ed c:/oracle/prog2.sql
```

```
SQL> ed c:/oracle/prog3.sql

SQL> @ c:/oracle/prog3.sql
Enter value for price: 100
old    6:        price:=&price;
new    6:        price:=100;
Enter value for qty: 6
old    7:        qty:=&qty;
new    7:        qty:=6;
        total=price*qty;
              *
ERROR at line 8:
ORA-06550: line 8, column 7:
PLS-00103: Encountered the symbol "=" when expecting one of the following:
:= . ( @ % ;
ORA-06550: line 9, column 2:
PLS-00103: Encountered the symbol "DBMS_OUTPUT"
ORA-06550: line 9, column 44:
PLS-00103: Encountered the symbol ";" when expecting one of the following:
. ( , * % & - + / at mod remainder rem <an identifier>
<a double-quoted delimited-identifier> <an exponent (**)> as
from into || multiset bulk


SQL> ed c:/oracle/prog3.sql

SQL> @ c:/oracle/prog3.sql
Enter value for price: 100
old    6:        price:=&price;
new    6:        price:=100;
Enter value for qty: 5
old    7:        qty:=&qty;
new    7:        qty:=5;
Total is 500

PL/SQL procedure successfully completed.

SQL> ed c:/oracle/prog3.sql

SQL> select * from tab;

TNAME                          TABTYPE  CLUSTERID
------------------------------ -------  ----------
DOCTORS                        TABLE
PATIENTS                       TABLE
DEVELOPERS                     TABLE
EMPLOYEES                      TABLE
CUSTOMERS3                     TABLE
CUSTOMERS                      TABLE
```

```
CUSTOMERS2                     TABLE
CUSTOMERS4                     TABLE
CUSTOMERS5                     TABLE
CUSTOMERS6                     TABLE
CUSTOMERS7                     TABLE

TNAME                          TABTYPE   CLUSTERID
------------------------------ -------   ----------
CUST10                         TABLE
PRODUCTS                       TABLE
PRODUCTS2                      TABLE
ACCOUNTS                       TABLE
EMP                            TABLE
TRAINS                         TABLE
CRICKETERS                     TABLE
RESERVATION                    TABLE
WORKERS                        TABLE
SALARY                         TABLE
MEMBERS                        TABLE

TNAME                          TABTYPE   CLUSTERID
------------------------------ -------   ----------
BOOKS                          TABLE
ISSUE                          TABLE
EMPS                           TABLE
TEST                           TABLE
EXAM                           TABLE
SAMPLE                         TABLE
EMP1                           TABLE
SAMPLE2                        TABLE
PARENT                         TABLE
CHILD                          TABLE
EMP2                           TABLE

TNAME                          TABTYPE   CLUSTERID
------------------------------ -------   ----------
CITIES                         TABLE
STOCK                          TABLE
SALES                          TABLE
RES2                           TABLE
FOOTBALL                       TABLE

38 rows selected.

SQL> select * from stock;

    PRODCD NAME       COMPANY
---------- ---------- ----------
       101 Monitor    Samsung
       102 Printer    Epson
```

```
        103 Mouse       Logitech
        104 Processor   AMD

SQL> insert into stock values(&prodcd,'&pname','&company');
Enter value for prodcd: 105
Enter value for pname: Scanner
Enter value for company: HP
old   1: insert into stock values(&prodcd,'&pname','&company')
new   1: insert into stock values(105,'Scanner','HP')

1 row created.

SQL>
SQL> ed c:/oracle/prog3.sql

SQL> @ c:/oracle/prog3.sql
Enter value for price: 56
old   6:          price:=&price;
new   6:          price:=56;
Enter value for qty: 6
old   7:          qty:=&qty;
new   7:          qty:=6;
Total is 336

PL/SQL procedure successfully completed.

SQL> ed c:/oracle/prog3.sql

SQL> @ c:/oracle/prog3.sql
Enter value for mrp: 200
old   6:          price:=&MRP;
new   6:          price:=200;
Enter value for units: 5
old   7:          qty:=&units;
new   7:          qty:=5;
Total is 1000

PL/SQL procedure successfully completed.

SQL> ed c:/oracle/prog3.sql

SQL> ed c:/oracle/prog4.sql

SQL> @ c:/oracle/prog4.sql
Enter value for age: 20
old   4:          age:=&age;
new   4:          age:=20;
SP2-0552: Bind variable "DBMS_OUTPUT" not declared.
SQL> ed c:/oracle/prog4.sql
```

```
SQL> @ c:/oracle/prog4.sql
Enter value for age: 20
old   4:         age:=&age;
new   4:         age:=20;
SP2-0552: Bind variable "DBMS_OUTPUT" not declared.
SQL> ed c:/oracle/prog4.sql

SQL> ed c:/oracle/prog4.sql

SQL> @ c:/oracle/prog4.sql
Enter value for age: 20
old   4:         age:=&age;
new   4:         age:=20;
SP2-0552: Bind variable "DBMS_OUTPUT" not declared.
SQL> ed c:/oracle/prog4.sql

SQL> @ c:/oracle/prog4.sql
Enter value for age: 20
old   4:         age:=&age;
new   4:         age:=20;
                dbms_output.put_line('You can vote');
                *
ERROR at line 6:
ORA-06550: line 6, column 3:
PLS-00103: Encountered the symbol "DBMS_OUTPUT" when expecting one of the
following:
* & - + / at mod remainder rem then <an exponent (**)> and or
|| multiset
The symbol "*" was substituted for "DBMS_OUTPUT" to continue.
ORA-06550: line 6, column 39:
PLS-00103: Encountered the symbol ";" when expecting one of the following:
. ( * % & - + / at mod remainder rem then <an exponent (**)>
and or ||


SQL> ed c:/oracle/prog4.sql

SQL> @ c:/oracle/prog4.sql
Enter value for age: 20
old   4:         age:=&age;
new   4:         age:=20;
end;
   *
ERROR at line 11:
ORA-06550: line 11, column 4:
PLS-00103: Encountered the symbol ";" when expecting one of the following:
if


SQL> ed c:/oracle/prog4.sql
```

```
SQL> @ c:/oracle/prog4.sql
Enter value for age: 20
old    4:          age:=&age;
new    4:          age:=20;
You can vote

PL/SQL procedure successfully completed.

SQL> @ c:/oracle/prog4.sql
Enter value for age: 12
old    4:          age:=&age;
new    4:          age:=12;
You can not vote

PL/SQL procedure successfully completed.

SQL> 20
SP2-0226: Invalid line number
SQL> ed c:/oracle/prog4.sql

SQL> ed c:/oracle/prog4.sql

SQL> ed c:/oracle/prog5.sql

SQL> @ c:/oracle/prog5.sql
Enter value for a: 1
old    4:          a:=&a;
new    4:          a:=1;
SP2-0552: Bind variable "THEN" not declared.
SQL> ed c:/oracle/prog5.sql

SQL> @ c:/oracle/prog5.sql
Enter value for a: 1
old    4:          a:=&a;
new    4:          a:=1;
SP2-0552: Bind variable "THEN" not declared.
SQL> ed c:/oracle/prog5.sql

SQL> @ c:/oracle/prog5.sql
Enter value for a: 1
old    4:          a:=&a;
new    4:          a:=1;
        if a==1
              *
ERROR at line 5:
ORA-06550: line 5, column 7:
PLS-00103: Encountered the symbol "=" when expecting one of the following:
( - + all case mod new null <an identifier>
<a double-quoted delimited-identifier> <a bind variable> any
```

```
avg count current max min prior some sql stddev sum variance
execute forall merge time timestamp interval date
<a string literal with character set specification>
<a number> <a single-quoted SQL string> pipe
<an alternatively-quoted string literal with character set specification>
<an alternatively-quoted
ORA-06550: line 8, column 7:
PLS-00103: Encountered the symbol "A" when expecting one of the following:
:= . ( @ % ;


SQL> ed c:/oracle/prog5.sql

SQL> @ c:/oracle/prog5.sql
Enter value for a: 1
old   4:         a:=&a;
new   4:         a:=1;
        elif a=2
             *
ERROR at line 8:
ORA-06550: line 8, column 7:
PLS-00103: Encountered the symbol "A" when expecting one of the following:
:= . ( @ % ;
ORA-06550: line 11, column 7:
PLS-00103: Encountered the symbol "A" when expecting one of the following:
:= . ( @ % ;
ORA-06550: line 17, column 4:
PLS-00103: Encountered the symbol ";" when expecting one of the following:
if


SQL> ed c:/oracle/prog5.sql

SQL> @ c:/oracle/prog5.sql
Enter value for a: 1
old   4:         a:=&a;
new   4:         a:=1;
        elif a=3
               *
ERROR at line 11:
ORA-06550: line 11, column 7:
PLS-00103: Encountered the symbol "A" when expecting one of the following:
:= . ( @ % ;
ORA-06550: line 17, column 4:
PLS-00103: Encountered the symbol ";" when expecting one of the following:
if


SQL> ed c:/oracle/prog5.sql
```

```
SQL> @ c:/oracle/prog5.sql
Enter value for a: 1
old    4:          a:=&a;
new    4:          a:=1;
Monday

PL/SQL procedure successfully completed.

SQL> @ c:/oracle/prog5.sql
Enter value for a: 3
old    4:          a:=&a;
new    4:          a:=3;
Wednesday

PL/SQL procedure successfully completed.

SQL> @ c:/oracle/prog5.sql
Enter value for a: 6
old    4:          a:=&a;
new    4:          a:=6;
Sunday

PL/SQL procedure successfully completed.

SQL> ed c:/oracle/prog5.sql

SQL> select * from stock;

    PRODCD NAME         COMPANY
---------- ---------- ----------
       101 Monitor      Samsung
       102 Printer      Epson
       103 Mouse        Logitech
       104 Processor    AMD
       105 Scanner      HP

SQL> select * from stock where prodcd=101;

    PRODCD NAME         COMPANY
---------- ---------- ----------
       101 Monitor      Samsung

SQL> ed c:/oracle/prog6.sql

SQL> @ c:/oracle/prog6.sql
Enter value for pno: 101
old    6:          pno=&pno;
new    6:          pno=101;
        pno=101;
            *
```

```
ERROR at line 6:
ORA-06550: line 6, column 5:
PLS-00103: Encountered the symbol "=" when expecting one of the following:
:= . ( @ % ;


SQL> ed c:/oracle/prog6.sql

SQL> @ c:/oracle/prog6.sql
Enter value for pno: 101
old    6:          pno:=&pno;
new    6:          pno:=101;
Name Monitor
Company Samsung

PL/SQL procedure successfully completed.

SQL> @ c:/oracle/prog6.sql
Enter value for pno: 102
old    6:          pno:=&pno;
new    6:          pno:=102;
Name Printer
Company Epson

PL/SQL procedure successfully completed.

SQL> 101
SP2-0226: Invalid line number
SQL> ed c:/oracle/prog6.sql

SQL> ed c:/oracle/prog6.sql

SQL> select *from customers;

       CNO CNAME           AMOUNT DOJ          CONTACT    DEPT CITY
---------- ------------- ---------- --------- ---------- ---------- ----------
         1 Ravi             495 10-APR-20       9983       10 Indore
         2 Sumit            715 13-APR-20       8832       20 Sagar
         3 Ajay             165 30-SEP-22                  10 Sagar
         4 Vijay            935 15-FEB-23                  30 Indore
         5 Sanjay           385 10-APR-20                  10 Indore
         6 Gourav            55 03-NOV-25                  20 Sagar
         7 Sourav           120 06-NOV-25                  10 Sagar
         8 Raja             230 04-OCT-25                  20 Bhopal
         9 Rani             260 16-MAY-23                  30 Bhopal
        10 Gaurav           300 15-NOV-25       3394       40 Gwalior

10 rows selected.

SQL> ed c:/oracle/prog7.sql
```

```
SQL> @ c:/oracle/prog7.sql
Enter value for town: Gwalior
old   5:         town='&town';
new   5:         town='Gwalior';
Enter value for town: d
old   6:         select cname into nm from customers where city=&town;
new   6:         select cname into nm from customers where city=d;
        town='Gwalior';
            *
ERROR at line 5:
ORA-06550: line 5, column 6:
PLS-00103: Encountered the symbol "=" when expecting one of the following:
:= . ( @ % ;
The symbol ":= was inserted before "=" to continue.


SQL> ed c:/oracle/prog7.sql

SQL> @ c:/oracle/prog7.sql
Enter value for town: Gwalior
old   5:         town:='&town';
new   5:         town:='Gwalior';
Name Gaurav

PL/SQL procedure successfully completed.

SQL> ed c:/oracle/prog7.sql

SQL> @ c:/oracle/prog7.sql
Enter value for town: Indore
old   5:         town:='&town';
new   5:         town:='Indore';
declare
*
ERROR at line 1:
ORA-01422: exact fetch returns more than requested number of rows
ORA-06512: at line 6


SQL> @ c:/oracle/prog7.sql
Enter value for town: Ujjain
old   5:         town:='&town';
new   5:         town:='Ujjain';
declare
*
ERROR at line 1:
ORA-01403: no data found
ORA-06512: at line 6
```

```
SQL> @ c:/oracle/prog7.sql
Enter value for town: Gwalior
old    5:         town:='&town';
new    5:         town:='Gwalior';
Name Gaurav

PL/SQL procedure successfully completed.

SQL> ed c:/oracle/prog7.sql

SQL> @ c:/oracle/prog7.sql
Enter value for town: Indore
old    5:         town:='&town';
new    5:         town:='Indore';
Multiple records found

PL/SQL procedure successfully completed.

SQL> @ c:/oracle/prog7.sql
Enter value for town: aaa
old    5:         town:='&town';
new    5:         town:='aaa';
No record found

PL/SQL procedure successfully completed.

SQL> ed c:/oracle/prog7.sql

SQL>
```