

```
DECLARE
    x number:= 8; -- Global Variable

BEGIN
    DBMS_OUTPUT.PUT_LINE('x value is: '||x);
    DECLARE
        y number:= 3; -- Local Variable
        z number:=0; -- Local Variable
    BEGIN
        DBMS_OUTPUT.PUT_LINE('y value is: '||y);
        z := x+y;
        DBMS_OUTPUT.PUT_LINE('z value is : '||z);
    END;
END;
```

Script Output x

Task completed in 0.199 seconds

```
x value is:8
y value is:3
z value is :11
```

2nd

declare

```
v_Student_name students.st_name%type;
v_DoB students.dob%type;
v_Project_id project.project_id%type;
v_Project_Name project.project_name%type;
v_Project_duration project.duration%type;
v_Project_fee project.fees%type;
v_dept_id department.dept_id%type;
v_dept_name department.dept_name%type;
v_Complete_intime student_project_assignment.completion_intime%type;
v_age number;
```

```

begin
select s.st_name,s.dob,
      sp.project_id,sp.project_name,sp.duration,sp.fees,
      d.dept_id,d.dept_name,
      spa.completion_intime ,trunc((sysdate-dob)/365.5)
into
v_Student_name,v_DoB,v_Project_id,v_Project_Name,v_Project_duration,
v_Project_fee,v_dept_id,v_dept_name,v_Complete_intime,v_age
from department d, students s, project sp, student_project_assignment spa
where d.dept_id = s.dept_id
and s.st_id = spa.st_id
and sp.project_id = spa.project_id
and s.st_id = :k;

dbms_output.put_line('Student name is '||' '||v_Student_name);
dbms_output.put_line('Student Date Of Birth '||' '||v_DoB);
dbms_output.put_line('Student Project Id' ||' '||v_Project_id);
dbms_output.put_line('Project Name' ||' '||v_Project_Name);
dbms_output.put_line('Project Fees' ||' '||v_Project_fee);
dbms_output.put_line('Dept Id' ||' '||v_dept_id);
dbms_output.put_line('Dept Name' ||' '||v_dept_name);
dbms_output.put_line('Completion In Time' ||' '||v_Complete_intime);
dbms_output.put_line('Date' ||' '||sysdate);
dbms_output.put_line('Age is '||' '||v_age);
end;

```

Worksheet Query Builder

```
v_DoB students.dob%type;  
v_Project_id project.project_id%type;  
v_Project_Name project.project_name%type;  
v_Project_duration project.duration%type;  
v_Project_fee project.fees%type;  
v_dept_id department.dept_id%type;  
v_dept_name department.dept_name%type;  
v_Complete_intime student_project_assignment.completion_intime;  
v_age number;  
  
begin  
    select s.st_name,s.dob,  
           sp.project_id,sp.project_name,sp.duration,sp.fees,
```

Script Output x

Task completed in 0.081 seconds

Student name is John
Student Date Of Birth 12-02-98
Student Project Id 124
Project Name Market Research
Project Fees 3000
Dept Id 101
Dept Name Engineering
Completion In Time Completed
Date 22-06-23
Age is 25

```
=====
declare
    today_date varchar2(30);
    today_name varchar2(30);
    this_month varchar2(30);
    this_year varchar2(30);
begin
    select to_char(sysdate,'DD') into today_date from dual;
    dbms_output.put_line('Today day is '||' '||today_date);
    select to_char(sysdate,'day') into today_name from dual;
    dbms_output.put_line('Today Name is'||' '||today_name);
    select to_char(sysdate,'Month') into this_month from dual;
    dbms_output.put_line('This Month name is '||' '||this_month);
    select to_char(sysdate,'YYYY') into this_year from dual;
    dbms_output.put_line('This year is'||' '||this_year);
end;
/
```

Script Output x

Task completed in 0.071 seconds

Today day is 22
Today Name is thursday
This Month name is June
This year is 2023

PL/SQL procedure successfully completed.

```
declare
    v_ename emp.ename%type;
    v_sal emp.sal%type;
    v_tno emp.deptno%type;
begin
    select ename,sal,deptno into v_ename,v_sal,v_tno from emp where deptno=&deptno;

    dbms_output.put_line(v_ename);
    dbms_output.put_line(v_sal);
    dbms_output.put_line(v_tno);
end;
/
```

Script Output x

Task completed in 4.713 seconds

dbms_output.put_line(v_ename);
dbms_output.put_line(v_sal);
dbms_output.put_line(v_tno);
end;

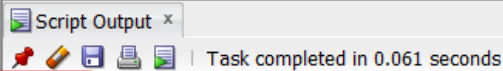
Error report -
ORA-01422: exact fetch returns more than requested number of rows
ORA-06512: at line 6
01422. 00000 - "exact fetch returns more than requested number of rows"
*Cause: The number specified in exact fetch is less than the rows returned.
*Action: Rewrite the query or change number of rows requested

```

=====
declare
    l_string varchar2(200) := 'Hello';
    l_new_string varchar2(200) ;
begin
    l_new_string := replace (l_string, 'Hello', 'Hi');
    dbms_output.put_line(l_new_string);
end;

/
=====

```

Script Output x
 Task completed in 0.061 seconds

Hi

PL/SQL procedure successfully completed.

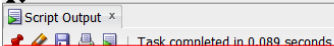
```

declare
    v_st_id students.st_id%type;
begin
    select st_id into v_st_id from students
    where st_id = :n;

    dbms_output.put_line(v_st_id);
exception
    when no_data_found then
        dbms_output.put_line('There is no data for your selection');
    when too_many_rows then
        dbms_output.put_line('The Query you written is returning more then one row');
    when others then
        dbms_output.put_line(SQLERRM);
end;

/

```

Script Output x
 Task completed in 0.089 seconds

There is no data for your selection

PL/SQL procedure successfully completed.