Write PL/SQL code block to display the word "Hello!"

PROGRAM

set serveroutput on

BEGIN

dbms_output.put_line('Hello!');

END;

Output:

Hello!

PL/SQL procedure successfully completed.

Write PL/SQL code block which will get the salary of an employee with particular id from emp table and display it on screen.

PROGRAM

```
create table emp_detail(id number, name char(30), salary number(6)); insert into emp_detail values(101, 'sargam', 25000); insert into emp_detail values(102, 'harman', 30000); insert into emp_detail values(103, 'sargun', 50000); insert into emp_detail values(104, 'sehaj', 27000); insert into emp_detail values(105, 'shetal', 45000); insert into emp_detail values(106, 'aman', 65000); insert into emp_detail values(107, 'simar', 45000); insert into emp_detail values(108, 'samreen', 44000); insert into emp_detail values(109, 'ishjot', 33000); select * from emp_detail;
```

ID	NAME	SALARY
101	sargam	25000
102	harman	30000
	sargun	50000
	sehaj	27000
105	shetal	45000
106	aman	65000
107	simar	45000
	samreen	44000
109	ishjot	33000

Method 1:

```
set serveroutput on
DECLARE
emp_rec emp_detail%rowtype;
BEGIN
select * into emp_rec from emp_detail where id = 104;
dbms_output_line('Employee ID: ' || emp_rec.id);
dbms_output.put_line('Employee Name: ' || emp_rec.name);
dbms_output.put_line('Employee Salary: ' || emp_rec.salary);
END;
```

Output:

Employee ID: 104 Employee Name: sehaj Employee Salary: 27000

PL/SQL procedure successfully completed.

Method 2:

```
set serveroutput on DECLARE x varchar(10);
```

```
a varchar(10);
BEGIN
select salary into x from emp_detail where id = '&a';
dbms_output.put_line(x);
END;
Output:
Substitution Variables
Enter values for substitution variables in the script to execute:

Variable Value
a 109

OK Cancel

old 5: select salary into x from emp_detail where id = '&a';
new 5: select salary into x from emp_detail where id = '109';
33000
PL/SQL procedure successfully completed.
```

Write PL/SQL code block to calculate the sum by taking input of two numbers.

```
set serveroutput on
DECLARE
  no1 number(7);
  no2 number(7);
  result number(7);
BEGIN
  result:= &no1 + &no2;
  dbms_output_line('Sum of the numbers entered is: '||result);
END;
Output:
 Substitution Variables
Enter values for substitution variables in the script to execute:
 Variable Value
    no1
    no2
                                                                            OK Cancel
Substitution Variables
Enter values for substitution variables in the script to execute:
 Variable Value
    no1 9
    no2 10
                                                                            OK Cancel
old 6: result:= &no1 + &no2;
new 6: result:= 9 + 10;
Sum of the numbers entered is: 19
PL/SQL procedure successfully completed.
```

Write PL/SQL code block which creates two variables in the outer block and assign their product to the third variable created in the inner block.

```
set serverouput on
DECLARE
  no1 number(7);
  no2 number(7);
BEGIN
  no1 := &no1;
  no2 := &no2;
  DECLARE
     result number(15);
  BEGIN
     result := no1 * no2;
     dbms_output.put_line('The product is: '||result);
  END;
END;
Output:
Substitution Variables
Enter values for substitution variables in the script to execute:
 Variable Value
    no1 7
    no2 8
                                                                     OK Cancel
old 5: no1 := &no1;
new 5: no1 := 7;
old 6: no2 := &no2;
new 6: no2 := 8;
The product is: 56
PL/SQL procedure successfully completed.
```

Write PL/SQL code block to declare a record called employee_rec based on user-defined datatype.

PROGRAM

```
set serveroutput on DECLARE
type employee is record
( id number(4),
name varchar(30),
salary number(6));
employee_rec employee;
BEGIN
select id, name, salary into employee_rec.id, employee_rec.name,
employee_rec.salary from emp_detail where id = 109;
dbms_output.put_line('Employee ID: ' || employee_rec.id);
dbms_output.put_line('Employee Name: ' || employee_rec.name);
dbms_output.put_line('Employee Salary: ' || employee_rec.salary);
END;
```

Output:

Employee ID: 109 Employee Name: ishjot Employee Salary: 33000

PL/SQL procedure successfully completed.

Write PL/SQL code block for a procedure that has four sections. Each section should output a statement use labels and goto command to output the section message in the following order.

```
Section 3
Section 2
Section 1
```

Section 4

PROGRAM

set serveroutput on

BEGIN

```
dbms_output.put_line('Gursimar Kaur');
dbms_output.put_line('1820036');
goto section3;

<<section1>>
dbms_output.put_line('Section 1');
goto section2;

<<section2>>
dbms_output.put_line('Section 2');
goto section4;

<<section3>>
dbms_output.put_line('Section 3');
goto section1;

<<section4>>
dbms_output.put_line('Section 4');
```

END;

Output:

Gursimar Kaur 1820036 Section 3 Section 1 Section 2 Section 4 PL/SQL procedure successfully completed.

Write PL/SQL code block which use the relational operators to compare character values for equality or inequality.

```
set serveroutput on
DECLARE
Name varchar(20);
Company varchar(30);
Introduction CLOB;
Choice varchar(1);
BEGIN
  Name := 'Gursimar';
  Company := 'Google';
  Introduction := 'Smart and talented';
  choice := '&choice';
  if choice = 'y' then
    dbms_output.put_line(Name);
    dbms_output.put_line(Company);
    dbms_output.put_line(Introduction);
  else
    dbms_output.put_line('wrong input');
  end if:
END;
Output:
old 10: choice := '&choice';
new 10: choice := 'y';
Gursimar
Google
Smart and talented
PL/SQL procedure successfully completed.
```

Write PL/SQL code block which use the if statement.

```
set serveroutput on
DECLARE
no1 number(4);
no2 number(4);
no3 number(4);
min_no number(4);
Procedure find_min(x In number, y In number, z In number, min Out
number) IS
BEGIN
if x<y then
  if x<z then
    min := x;
  else
    min := z;
  end if:
else
  if y<z then
    min := y;
  else
    min := z;
  end if:
end if:
end find_min;
BEGIN
find_min(&a, &b, &c, min_no);
dbms_output.put_line('Minimum value among all 3 numbers is :
'||min no);
END;
 old 23: find min(&a, &b, &c, min no);
 new 23: find min(3, 4, 2, min no);
 Minimum value among all 3 numbers is: 2
 PL/SQL procedure successfully completed.
```