INTRODUCTION TO PL/SQL.

**1.Write a pl/sql program ro swap two numbers without taking three variables.**

declare

a number(10);

b number(10);

begin

a:=10;

b:=20;

dbms\_output.put\_line('the prev values of a and b');

dbms\_output.put\_line(a);

dbms\_output.put\_line(b);

a:=a+b;

b:=a-b;

a:=a-b;

dbms\_output.put\_line('the values of a and b '|| a||'and' || b);

end;

**output:**

the prev values of a and b

10

20

the values of a and b 20and10

Statement processed.

0.01 seconds

**2.Write a pl/sql program to find the largest of two numbers**

declare

a number;

b number;

begin

a:=:a;

b:=:b;

if a=b then

dbms\_output.put\_line('both are equal');

elsif a>b then

dbms\_output.put\_line(a||' is greater');

else

dbms\_output.put\_line(b||' is greater');

end if;

end;

**output:**

20 is greater

Statement processed.

0.01 seconds

**3.write a pl/sql to find the largest of three numbers.**

declare

a number;

b number;

c number;

begin

a:=:a;

b:=:b;

c:=:c;

if a=b and b=c and c=a then

dbms\_output.put\_line('all are equal');

elsif a>b and a>c then

dbms\_output.put\_line(a||' is greater');

elsif b>c then

dbms\_output.put\_line(b||' is greater');

else

dbms\_output.put\_line(c||' is greater');

end if;

end;

**output:**

40 is greater

Statement processed.

0.01 seconds

| **Bind Variable** | **Value** |
| --- | --- |
| :A |  |
| :B |  |
| :C |  |

**4.write a pl/sql program to check wether the given number is armstrong or not.**

declare

a number;

t number;

arm number;

d number;

begin

a:=:a;

t:=a;

arm:=0;

while t>0

loop

d:=mod(t,10);

arm:=arm+power(d,3);

t:=trunc(t/10);

end loop;

if arm=a then

dbms\_output.put\_line(a||' is an armstrong number');

else

dbms\_output.put\_line(a||' is not an armstrong number');

end if;

end;

**output:**

153 is an armstrong number

Statement processed.

0.01 seconds

| **Bind Variable** | **Value** |
| --- | --- |
| :A |  |

**5.write a pl/sql program to print square of a given number.**

declare

a number;

t number;

begin

a:=:a;

t:=a\*a;

dbms\_output.put\_line('the value of a is '||a);

dbms\_output.put\_line('the square of the value a is '||t);

end;

**output:**

the value of a is 2

the square of the value a is 4

Statement processed.

0.00 seconds

| **Bind Variable** | **Value** |
| --- | --- |
| :A |  |

**6.write a pl/sql program to print sum ,subtraction,multiplication and division of two numbers.**

declare

a number;

b number;

t number;

x number;

y number;

z number;

begin

a:=:a;

b:=:b;

t:=a+b;

x:=a-b;

y:=a\*b;

z:=a/b;

dbms\_output.put\_line('the given no a and b is '||a ||'and'||b);

dbms\_output.put\_line('the sum is '||t);

dbms\_output.put\_line('the sub is '||x);

dbms\_output.put\_line('the mul is '||y);

dbms\_output.put\_line('the sum is '||z);

end;

**output:**

the given no a and b is 20and10

the sum is 30

the sub is 10

the mul is 200

the sum is 2

Statement processed.

0.01 seconds

| **Bind Variable** | **Value** |
| --- | --- |
| :A |  |
| :B |  |