

Created by Ahsan Arif

P7. WRITE A PROGRAM TO INPUT 2 NUMBERS IF THE 1ST No > 2ND No THEN SWAP IT, ELSE IF 1ST No < 2ND No RAISE IT TO ITS POWER, ELSE DOUBLES IT.

```
Declare
a number(5);
b number(5);
t number(5);
begin
    a := &a;
    b := &b;
    dbms_output.put_line( 'Initial value of a = ||a ||, b = ||b );
if a>b then
    t:= a;
    a:= b;
    b:=t;
elsif a<b then
    a:=a**a;
    b:=b**b;
else
    a:=2*a;
    b:=2*b;
end if;
dbms_output.put_line('Final value of a = ||a ||, b = ||b);
end;
/
```

Enter value for a: 3

old 6: a := &a;

new 6: a := 3;

Enter value for b: 2

old 7: b := &b;

new 7: b := 2;

Initial value of a = 3, b = 2

Final value of a = 2, b = 3

PL/SQL procedure successfully completed.

P8. A BANK ACCEPTS FIXED DEPOSITS FOR ONE OR MORE YEARS AND THE POLICY IT ADOPTS ON INTEREST IS AS FOLLOWS:

- i) If a deposit is < Rs 2000 and for 2 or more years , the interest rate is 5% Compounded annually.**

- ii) If a deposit is Rs.2000 or more but less than 6000 and for 2 or more years , the interest is 7 % compounded annually.
- iii) If a deposit is Rs.6000 and for 1 or more years, the interest is 8 % compounded annually.
- iv) On all deposits for 5 years or more, interest is 10% compounded annually.
- v) On all other deposits not covered by above conditions , the interest is 3% compounded annually.

Given the amount deposited and the number of years, Write a program to calculate the amount on maturity.

```

Declare
p number(9,2);
r number(9,2);
t number(9,2);
ci number(9,2);
begin
p := &PrincipalAmount;
t := &TimePeriod;
if p<2000 and t>=2 then
    r := 5;
elsif p>=2000 and p<6000 and t>=2 then
    r := 7;
elsif p>6000 and t>=1 then
    r := 8;
elsif t>=5 then
    r := 10;
else
    r := 3;
end if;
ci := p*(1+r/100)**t - p;
dbms_output.put_line('The Principal amount is = ||p);
dbms_output.put_line('The rate of interest is = ||r);
dbms_output.put_line('The time period is = ||t);
dbms_output.put_line('The compound interest is = ||ci);
end;
/

```

Enter value for principalamount: 5000

old 7: p := &PrincipalAmount;

new 7: p := 5000;

Enter value for timeperiod: 10

old 8: t := &TimePeriod;

new 8: t := 10;

The Principal amount is = 5000

The rate of interest is = 7

The time period is = 10

The compound interest is = 4835.76

PL/SQL procedure successfully completed.

P9. WRITE A PROGRAM TO INPUT 3 NUMBERS FIND THE *1st Largest, 2nd Largest, 3rd Largest.*

```
Declare
a number(3);
b number(3);
c number(3);
f number(3);
s number(3);
t number(3);
Begin
a :=&a;
b :=&b;
c :=&c;
if a>b and a>c then
  f:= a;
if b>c then
  s:=b;
  t:=c;
else
  s:=c;
  t:=b;
end if;
elsif b>a and b>c then
  f:= b;
if a>c then
  s:=a;
  t:=c;
else
  s:=c;
  t:=a;
end if;
else
  f:= c;
if a>b then
  s:=a;
  t:=b;
else
  s:=b;
```

```

        t:=a;
    end if;
end if;
dbms_output.put_line('First Largest = ' ||f);
dbms_output.put_line('Second Largest = ' ||s);
dbms_output.put_line('Third Largest = ' ||t);
end;
/

```

```

Enter value for a: 9
old 9: a :=&a;
new 9: a :=9;
Enter value for b: 6
old 10: b :=&b;
new 10: b :=6;
Enter value for c: 1
old 11: c :=&c;
new 11: c :=1;
First Largest = 9
Second Largest = 6
Third Largest = 1

```

PL/SQL procedure successfully completed.

P10. WRITE A PROGRAM TO GET INPUT 2 (TWO) NUMBERS AND AN OPERATOR, AND DISPLAY THE RESULT.

```

Declare
a number(3) ;
b number(3) ;
c number(3) ;
op char(1) ;
Begin
a := &a ;
b := &b ;
op := '&op' ;
if op='+'
then
    c:=a+b;
elseif op='-'
then
    c:=a-b;
elseif op='*'
then
    c:=a*b;
else
    c:=a/b;

```

```
end if;
dbms_output.put_line('result=||c);
end;
/
Enter value for a: 5
old 7: a := &a ;
new 7: a := 5 ;
Enter value for b: 4
old 8: b := &b ;
new 8: b := 4 ;
Enter value for op: _
old 9: op := '&op' ;
new 9: op := '_' ;
result=1
```

PL/SQL procedure successfully completed.

```
SQL> /
Enter value for a: 7
old 7: a := &a ;
new 7: a := 7 ;
Enter value for b: 7
old 8: b := &b ;
new 8: b := 7 ;
Enter value for op: +
old 9: op := '&op' ;
new 9: op := '+' ;
result=14
```

PL/SQL procedure successfully completed.

P11. WRITE A PROGRAM TO CALCULATE THE COMMISSION OF THE SALES MAN.

RULE:

- i) If Sales > 10000 then Commission =500
- ii) If Sales > 20000 then Commission =1500

Declare

```
sman varchar(10);
sm number(9,2);
com number(9,2);
begin
    sman := '&Sales_Man';
    sm := &Total_Sales;
    if sm > 10000 then
        com := 500;
    elsif sm > 20000 then
```

```
        com := 1000;
    else
        com := 1500;
    end if;
    dbms_output.put_line(' The sales man name is : '||sman);
    dbms_output.put_line(' The sales made is : '||sm);
    dbms_output.put_line(' The sales commission is : '||com);
end;
/
```

```
Enter value for sales_man: arif
old 6: sman := '&Sales_Man';
new 6: sman := 'arif';
Enter value for total_sales: 12345
old 7: sm := &Total_Sales;
new 7: sm := 12345;
```

```
The sales man name is :arif
The sales made is :12345
The sales commission is :500
```

PL/SQL procedure successfully completed.