Program 1-Area and circumference

DECLARE

r real:=3;

a real;

c real;

BEGIN

a:=3.14\*r\*r;

c:=2\*3.14\*r;

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

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

END;

/

Output

area is:28.26

Circumference is:18.84

Statement processed.

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Program 2-To print hello world

DECLARE

a varchar2(10):='Helloworld';

BEGIN

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

END;

/

String is:Helloworld

Statement processed.

Program 3-Print helloworld using procedure

CREATE PROCEDURE greet

AS

BEGIN

dbms\_output.put\_line('Hello world');

END;

/

Procedure created.

Program 4-Addition of two numbers

DECLARE

a integer :=20;

b integer:=30;

c integer;

BEGIN

c:=a+b;

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

END;

/

Output

Sum is:50

Program 5-Local and global variables

DECLARE

num1 number:=10;

num2 number:=20;

BEGIN

dbms\_output.put\_line('Outer variables,num1:'||num1);

dbms\_output.put\_line('Outer variables,num2:'||num2);

DECLARE

num3 number:=30;

num4 number:=40;

BEGIN

dbms\_output.put\_line('Outer variable in inner block,num1:'||num1);

dbms\_output.put\_line('Outer variable in inner block,num2:'||num2);

dbms\_output.put\_line('Outer variable,num3:'||num3);

dbms\_output.put\_line('Outer variables,num4:'||num4);

END;

END;

/

output

Outer variables,num1:10

Outer variables,num2:20

Outer variable in inner block,num1:10

Outer variable in inner block,num2:20

Outer variable,num3:30

Outer variables,num4:40

Statement processed.

**Program 6-switch case**

**DECLARE**

**a integer:=10;**

**b integer:=20;**

**calc char(20):='addition';**

**BEGIN**

**case calc**

**When 'addition' then dbms\_output.put\_line('addition possible');**

**dbms\_output.put\_line(a+b);**

**When 'subtraction' then dbms\_output.put\_line('Subtraction possible');**

**dbms\_output.put\_line(a-b);**

**When 'multiplication' then dbms\_output.put\_line('Multiplication possible');**

**dbms\_output.put\_line(a\*b);**

**When 'division' then dbms\_output.put\_line('Division possible');**

**dbms\_output.put\_line(a/b);**

**else dbms\_output.put\_line('Invalid entry');**

**END CASE;**

**END;**

**/**

**Output**

addition possible

30

Statement processed.

0.02 seconds

**Program 7 –factorial using function**

declare

num integer:=3;

res integer;

fact integer;

function factorial(num IN integer)

return integer

AS

begin

fact:=1;

for i in 1..num loop

fact:=fact\*i;

end loop;

return fact;

end factorial;

begin

dbms\_output.put\_line('Factorial of:'||num);

res:=factorial(num);

dbms\_output.put\_line('Factorial is:'||res);

end;

/

Output

Factorial of:3

Factorial is:6

Statement processed.

Program 8-Reverse using function

CREATE OR REPLACE function reverseno(no1 in number)

return number

IS

n number:=no1;

p number;

c number:=0;

BEGIN

while(n>0)

Loop

p:=mod(n,10);

c:=c\*10+p;

n:=(n-p)/10;

END loop;

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

return c;

END;

/

Output

Function created.

0.02 seconds