

Q1 Write PL-SQL program to find sum and average

⇒ declare

a number := &a;

b number := &b;

c number := &c;

Sum number;

av number;

begin

Sum := a + b + c;

av := Sum / 3;

dbms_output.put_line ('Sum = ' || Sum);

dbms_output.put_line ('Average = ' || av);

end;

/

⇒ Value of a = 5

" " b = 6

" " c = 7

⇒ Sum = 18

Average = 6

GP

Q1 Write a PL-SQL program to find Simple Interest.

$$SI = \frac{PRT}{100}$$

=> declare

```
P number(9,2);  
R number(9,2);  
T number(9,2);  
SI number(9,2);
```

begin

```
P := &P;
```

```
R := &R;
```

```
T := &T;
```

```
SI := (P * R * T) / 100;
```

```
dbms_output.put_line('Simple Interest = ' || SI);
```

```
end;
```

```
/
```

=> Enter values of P: 2

11

11 R: 3

11

11 T: 4

Simple Interest = 24

12/05/24

1. Write Pseudocode to find factors of a number.

⇒ Set pseudocode on:

declare

n number;

i number;

f number := 1;

begin

n := 5

for i in 1..n

loop

f := f * i;

end loop;

display-output, put-line (n || "!" = ' || f);

end;

/

Output

Enter value for n: 5

5! = 120

GA

2. write pascal code to find greatest of three numbers.

\Rightarrow set-stdout on;
declare

a number := &a;

b number := &b;

c number := &c;

begin

if $a > b$ and $a > c$ then

do-stdout.put-line('a is greatest');

else if $b > a$ and $b > c$ then

do-stdout.put-line('b is greatest');

else

do-stdout.put-line('c is greatest');

end if;

end if;

end;

/

\Rightarrow a: 3

b: 4

c: 5

\therefore 5 is greatest.

3. write flow chart to find reverse of a number.

→ Set scanner output on;

declare

N number;

S number := 0;

R number;

K number;

begin

N := 2024;

K := N;

loop

exit when N = 0;

S := S * 10;

R := MOD(N, 10);

S := S + R;

N := TRUNC(N / 10);

end loop;

display - output: put - line ('The Reverse digit
of '||K||' = '||S||');

end;

/

Output

n: 2024

The Reverse digit of 2024: 4202

GP

2. write pseudocode to find reverse of a number.

⇒ Set screenoutput on;

declare

N number;

S Number := 0;

R Number;

K Number;

begin

N := &N;

K := N;

loop

exit when N = 0;

S := S * 10;

R := MOD(N, 10);

S := S + R;

N := TRUNC(N / 10);

End loop;

abms-output.put-line ('The Reversed digit
of '||K||' = '||S||');

end;

/

Output

m: 2024

The Reversed digit of 2024: 4202

GP

6. write a pascal program using case selection

⇒ Set Screenoutput on;
declare
grade char(1) := 'A';
begin
case grade
when 'A' then clbms.output.put_line('Excellent');
when 'B' then clbms.output.put_line('Very good');
when 'C' then clbms.output.put_line('good');
when 'D' then clbms.output.put_line('Average');
when 'E' then clbms.output.put_line('passed with
grade');
else clbms.output.put_line('Failed');
end case;
end;
/

Output

Excellent

1. write pascal program used nested loop to find the prime number.

=> Set benchmark on;

declare

i, number(3);

j, number(3);

begin

i := 2

loop

j := 2

loop

exit when ((mod(i, j) = 0) or (j = i));

j := j + 1;

end loop;

if (j = i) then

cls-output, put-lin(i || 'is prime');

end if;

i := i + 1;

exit when i = 50;

end loop;

end;

/

Output: 2 is prime

3 " "

5 " "

7 " "

11 " "

13 " "

17 " "

:

Query

Before insert trigger

set serveroutput on;

create or replace

trigger person-insert-before

before

insert

on person

for each row

begin

dbms_output.put_line ('before insert of '||
new.name);

end;

Trigger Created

GA

After insert triggers

Set serveroutput on;

Create or replace

triggers person-insert-after

after

insert

on person

for each row

begin

dbms_output.put_line('after insert of ' ||
new.name);

end;

/

SQL: insert into person values

(2, 'Smith', '03-mar-31');

Output:

Before insert of Smith

after insert of Smith

update trigger statement

30- triggered on;

create on replace

trigger person-update before
before update

on person

from each row

begin

declare cursor cur = cur ('before updating
from person');

end;

,

Output :

~~Trigger created~~

update person set job = 'update';
before updating from person

'2' has updates

After update trigger Statement

Set serveroutput on;

Create or replace

trigger person-update-after
after update

on person

for each row

begin

dbms_output.put_line('after updating
person');

end;

/

Output

Trigger Created.

Before delete trigger

Set Rowoutput on;

Create on replace

Trigger person - delete - before

before delete

On person

For each row

begin

dbms_output.put_line('before delete
from person');

end;

Output:

Trigger created

SQL :: delete person
before delete

1 row deleted.



After delete triggers

Set serveroutput on;

Create or replace

triggers person - delete - after
after delete

on person
for each row

begin

dbms_output.put_line('after delete
from person');

end;

Output.

Triggers Created

SQL> delete person where name =
'Smith' after delete of Smith-

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