

Database and Management System Lab

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B.Tech-IT(5th Sem)

Assignment 7

1.To read several input values and compute their average.

Ans:-

```
declare
a number := 22;
b number := 20;
c number := 18;
sum number;
ave number;
begin
sum :=a+b+c;
ave :=sum/3;
dbms_output_line("Sum= "||&sum);
```

```
dbms_output_line("Average= " || &ave);  
end;
```

Output:

Sum=60

Average=20.0

2.To take radius as input and calculate area and perimeter of a circle.Insert radius,area and perimeter in a table(already created before).

Ans:-

```
declare  
area number (5,2);  
radius number (1):= 3;  
pi constant number(3,2):=3.14;  
begin  
while radius <=7  
loop  
area :=pi*radius*radius;  
insert into areas values(radius,area);  
radius :=radius+1;  
end loop;  
end;
```

3.To display the numbers of faculties in each department. Also update the salary of 10% if the number of faculties is less than 10 in the department, else update salary by 5%.

Ans:-

```
declare
Cursor sal_increase(F_no Number)IS
Select emp_no,sal,ename,dept no from emp
where(F_no IS NOT NULL AND emp_no<10 OR F_no IS NULL AND
emp_no>=10);
OPEN sal_increase(F_no =>NULL);
LOOP
FETCH sal-increase
INTO emp_record;
EXIT WHEN sal_increase %NOT FOUND;
UPDATE emp SET sal=sal+0.10
WHERE emp_no=emp_record.emp_no;
dbms_output.Put_line(emp_record.ename||" "|| emp_record.dept_no);
end loop;
close sal_increase;
```

4.Find the sum upto 10th term....

i.) 1+2+3+.....

Ans:-

```
declare
i integer;
s integer;
```

```

begin
s :=0;
for i in loop 1...10 LOOP
s :=s+i;
end loop;
dbms_output.Put_line("Sum =" || s);
end;

```

i.) 1+4+9+.....

Ans:-

```

declare
i integer;
s integer;
begin
s :=0;
for i in loop 1...10 LOOP
s :=s+[i(i+1)(2n+1)/6]
end loop;
dbms_output.Put_line("Sum =" || s);
end;

```

i.) 1+5+25+125+.....

Ans:-

```

declare
i integer;
s integer;
begin
s :=0;

```

```

for i in loop 1...10 LOOP
s :=s+5i;
end loop;
dbms_output.Put_line("Sum =" || s);
end;

```

5.Find the sum of the digits of a number.

Ans:-

```

Declare
n integer;
temp integer;
r integer;
begin
n :=123456;
temp :=0;
while n<>0 loop
r := MOD(n,10);
temp :=temp+r;
n :=Trunc(n/10);
end loop;
dbms_output_line('Sum of digits'= || temp);
end;

```

6.Find the sum of the digits of a number.

Ans:-

```

declare

```

```
num number := '& Input_Number';
res number := 0;
begin
while(num>0)loop
res := res+num;
num=num+1;
EXIT WHEN num=0;
end loop;
dbms_output_line(res || 'is total!');
end;
declare
i integer;
s integer;
begin
s := 0;
for l in 1..10 loop
s:= s+i;
end loop;
dbms_output.put_line('Sum = ' || s);
end;
```

