**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);

redius 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 I in 1..10 loop

s:= s+i;

end loop;

dbms\_output.put\_line(‘Sum = ‘||s);

end;