**Experiment 8**

**Name :**

**Class : TE COMPUTERS**

**Roll No :**

**Batch :**

**Task 1**

**1. Write a block to display sum of digits of a three digit number**

**Code :(Using PL/SQL)**

do $$

<<block1>>

Declare

n int:=534;

n1 int;n2 int;n3 int;ans int;

Begin

n1=n/100;

n2=(n/10)%10;

n3=n%10;

ans=n1+n2+n3;

Raise Notice 'SUM OF 3 DIGITS OF A 3 DIGIT NUMBER IS=% ',ans;

end block1 $$;

**Output :**

NOTICE: SUM OF 3 DIGITS OF A 3 DIGIT NUMBER IS=12

Query returned successfully with no result in 12 ms.

**2. Write a block to display square of 1 to 10**

**Code :(Using PL/SQL)**

do $$

<<block2>>

Declare

n int:=1;

Begin

while n<=10

loop

Raise Notice 'SQUARE OF % number =% ',n,(n\*n);

n:=n+1;

end loop;

end block2 $$;

**Output :**

NOTICE: SQUARE OF 1 number =1

NOTICE: SQUARE OF 2 number =4

NOTICE: SQUARE OF 3 number =9

NOTICE: SQUARE OF 4 number =16

NOTICE: SQUARE OF 5 number =25

NOTICE: SQUARE OF 6 number =36

NOTICE: SQUARE OF 7 number =49

NOTICE: SQUARE OF 8 number =64

NOTICE: SQUARE OF 9 number =81

NOTICE: SQUARE OF 10 number =100

Query returned successfully with no result in 12 ms.

**3. Write a block to display Fibonacci series upto 8th term (start with 0,1)**

**Code :(Using Function)**

create function f1() returns varchar(50)

as $$

<<bl>>

declare

count int:=3; f int; s int;t int;

begin

f=0;

s=1;

Raise Notice 'The Term 1 of Fibonacci series is %',f;

Raise Notice 'The Term 2 of Fibonacci series is %',s;

t=f+s;

Raise Notice 'The Term % of Fibonacci series is %',count,t;

count=count+1;

while count<=8

loop

f=s;

s=t;

t=f+s;

Raise Notice 'The Term % of Fibonacci series is %',count,t;

count:=count+1;

end loop;

return 'Successful';

end;

$$ language plpgsql

select f1();

**Output :**

NOTICE: The Term 1 of Fibonacci series is 0

NOTICE: The Term 2 of Fibonacci series is 1

NOTICE: The Term 3 of Fibonacci series is 1

NOTICE: The Term 4 of Fibonacci series is 2

NOTICE: The Term 5 of Fibonacci series is 3

NOTICE: The Term 6 of Fibonacci series is 5

NOTICE: The Term 7 of Fibonacci series is 8

NOTICE: The Term 8 of Fibonacci series is 13

Total query runtime: 16 ms.

1 row retrieved.