# Advance Database Management Systems Lab Experiment- 10

## To understand the concepts of function and procedure in PL/SQL

```
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Batch- 2
create database LabExperiment10;
use LabExperiment10;
--1) Write a procedure to accept the value of A, B & C display which is greater.
Create procedure comp no(@A INTEGER, @B INTEGER, @C INTEGER)
as begin
BEGIN
IF (@A>@B AND (@A>@C
PRINT 'GREATEST IS A';
ELSE IF @B>@C AND @B>@A
PRINT 'GREATEST IS B';
ELSE
PRINT 'GREATEST IS C';
END;
END
EXECUTE comp no 100, 200, 50;
Output:
GREATEST IS B
Completion time: 2023-04-26T18:06:04.5349247+05:30
----2) Using procedure create a simple loop that display message "Welcome to
PL/SQL Programming" 20 times
create procedure display_message(@message varchar(200))
as begin
DECLARE @i integer;
set @i=1;
```

```
while @i<=20
BEGIN
PRINT @message
set @i=@i+1;
END
END
```

Execute display message 'Welcome to PL/SQL Programming';

#### Output:

```
Welcome to PL/SQL Programming
```

--3) Write procedure to find the factorial of a number.

```
Create procedure fact(@no int)
as begin
Declare @i int = 1,@fact_no int=1
while (@i<=@no)
Begin
Set @fact_no = @fact_no * @i
Set @i += 1
End
Select @fact_no
End
```

Execute fact 5;

--4) Write a procedure to generate Fibonacci series. create procedure Fibonacci(@fibno int)

```
as begin
declare @f1 INTEGER=0, @f2 INTEGER=1,@f3 INTEGER,@i
INTEGER=3,@len INTEGER;
print 'First two number'
print @f1;
print @f2;
print 'fibonacci series is';
while(@i<=@fibno)
begin
set @f3=@f1+@f2;
print @f3
set @f1=@f2;
set @f2=@f3;
set @i=@i+1;
end;
END;
execute Fibonacci 5;
Output:
First two number
fibonacci series is
First two number
fibonacci series is
First two number
fibonacci series is
First two number
--5) Write a procedure to find the sum of first N numbers
create procedure sum number(@n integer)
as BEGIN
declare @i integer, @sum integer = 0;
set @i = 1;
while (@i \le @n)
begin
```

```
set @sum=@sum+@i
set @i=@i+1
end
print 'sum of first @n numbers'
print @sum
END
```

### EXECUTE sum\_number 5;

#### Output:

```
sum of first @n numbers
15
```