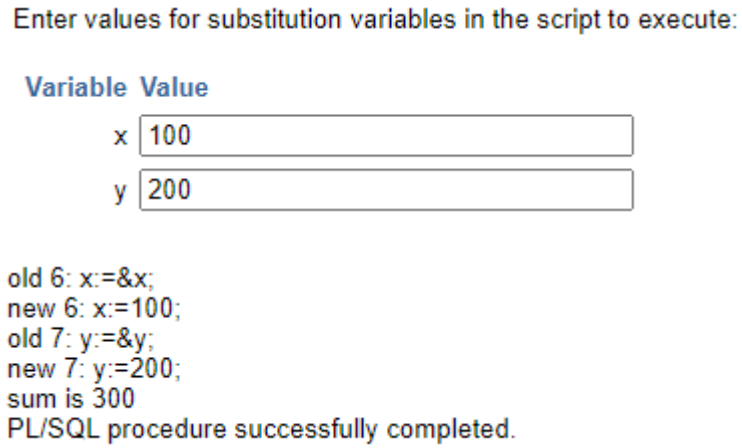
ASSIGNMENT- 5

1. Write a PL/SQL program to display a constant value and an addition of two number variables (keyboard inputs)

```
Set serveroutput on;
declare
x number;
y number;
z number;
begin
x:=&x;
y:=&y;
z:= x+y;
dbms_output.put_line('sum is ' || z);
end;
```

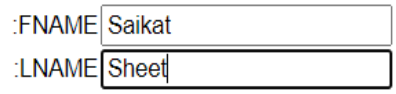
OUTPUT:



2. Write a PL/SQL program to declare two strings (firstname, lastname) and display them individually and also display the full name by concatenation.

```
declare
Fname varchar2(30);
Lname varchar2(30);
begin
Fname:=:Fname;
Lname:=:Lname;
dbms_output.put_line(Fname||' '||Lname);
end;
```

OUTPUT:




```
Saikat Sheet

Statement processed.

0.02 seconds
```

3. Write a PL/SQL program to accept lower limit and upper limit of a range of values. Find out the even and odd number from that given range of values.

```
declare
low number;
upp number;
even number;
odd number;
begin
low:=& low;
```

```
upp:=& upp;
if mod(low,2) != 0 then
low := low+1;
end if;
if mod(upp,2) != 0 then
upp := upp-1;
end if;
even := (upp-low)/2+1;
odd := ((upp-low)+1)-even;
dbms_output.put_line('Even is '||even);
dbms_output.put_line('Odd is '||odd);
end;
```

OUTPUT:

```
old 7: low:=& low;
new 7: low:=1;
old 8: upp:=& upp;
new 8: upp:=10;
Even is 5
Odd is 4
PL/SQL procedure successfully completed.
```

4. Write a PL/SQL program to accept the final limit of a Fibonacci series and display the series in output (0 1 1 2 3 5 8 13 ……).

```
DECLARE
 final_limit NUMBER :=:Enter_Final_Limit;
 prev_number NUMBER := 0;
 curr_number NUMBER := 1;
 next_number NUMBER;
 fib_series VARCHAR2(200) := '0, 1';
BEGIN
 WHILE curr_number + prev_number <= final_limit LOOP
```

```
 next_number := curr_number + prev_number;
 fib_series := fib_series || ', ' || next_number;
 prev_number := curr_number;
curr_number := next_number;
 END LOOP;
 DBMS_OUTPUT.PUT_LINE('Fibonacci series up to ' || final_limit || ': ' ||
fib_series);
END;
```

OUTPUT:

```
Fibonacci series up to 5: 0, 1, 1, 2, 3, 5

Statement processed.
```