ADBMS LAB ASSIGNMENT-1

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<u>AIM:</u> Write and implement simple PL/SQL programs using declare, begin and end statements.

Q1) Write and Implement PL/SQL code to swap two numbers.

```
declare
a number;
b number;
begin
a:=:a;
b:=:b;
dbms_output.put_line('Original numbers are:'||a||' '||b);
a:=a+b;
b:=a-b;
a:=a-b;
dbms_output.put_line('Swapped numbers are:'||a||' '||b);
end;
 Results Explain Describe Saved SQL History
Original numbers are:2 5
Swapped numbers are:5 2
Statement processed.
0.12 seconds
```

Q2) Write and implement PLSQL code to find students first name and last name from student table and print it on the screen.

```
✓ Autocommit Display 10 ✓

create table Student153 (
rollNumber int Primary Key,
firstName char(20),
lastName char(20)
);

0.40 seconds

insert into Student15 values (1000, 'John', 'Wick');
insert into Student15 values (2000, 'James', 'Bond');
insert into Student15 values (3000, 'Ethan', 'Hunt');
```

```
Declare

fname char(20);
lname char(20);

Begin

Select firstname, lastname into fname, lname from Student15 where rollNumber = 107;

DBMS_OUTPUT.PUT_LINE(' Student name :'|| fname ||''|| lname );

Exception

When No DATA FOUND THEN

DBMS_OUTPUT.PUT_LINE(' There is no student with '|| ' student ');

End;
```

OUTPUT:

Results	Explain	Describe	Saved SQL	History
Student name :John				Wick
Statement processed.				

0.02 seconds

0.01 seconds

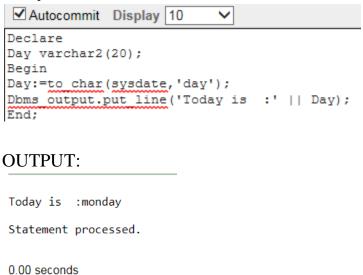
Q3) Write and implement PL/SQL code to calculate power of the number.

```
declare
vnum number;
vpower number;
vresult number;
begin
vnum:=:vnum;
vpower:=:vpower;
vresult:=power(vnum,vpower);
dbms_output.put_line('Power of number is:'|| vresult);
end;

Results Explain Describe Saved SQL History

Power of number is:32
Statement processed.
```

Q4) Write and implement PL/SQL code to determine day of week based on today's date.



Q5) Write and Implement PL/SQL code to print number 10 to 5 using simple loop, while loop and for loop.

using simple loop:

```
declare
vnum number:=11;
begin
loop
vnum:=vnum-1;
dbms_output.put_line('Number is:'|| vnum);
exit when vnum<=5;
end loop;
end;
Results Explain Describe Saved SQL History
Number is:10
Number is:9
Number is:8
Number is:7
Number is:6
Number is:5
Statement processed.
0.00 seconds
```

using while loop:

```
declare
vnum number:=10;
begin
while vnum>=5 loop
dbms_output.put_line('Number is:'|| vnum);
vnum:=vnum-1;
end loop;
end;
 Results Explain Describe Saved SQL Histor
Number is:10
Number is:9
Number is:8
Number is:7
Number is:6
Number is:5
Statement processed.
```

using for loop

```
declare
vnum number;
begin
for vnum in reverse 5..10 loop
dbms_output.put_line('Number is:'|| vnum);
end loop;
end;

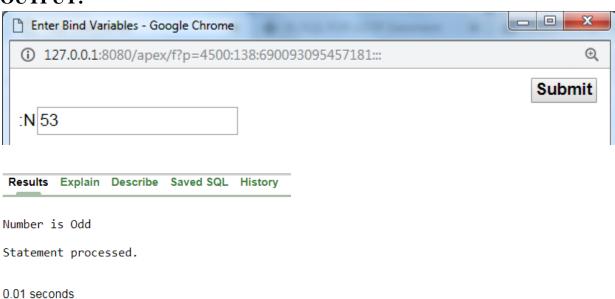
Results Explain Describe Saved SQL Histo
```

```
Number is:9
Number is:8
Number is:7
Number is:6
Number is:5
Statement processed.
```

Number is:10

Q6) Write and Implement PL/SQL code to print the given number is even or odd.

OUTPUT:



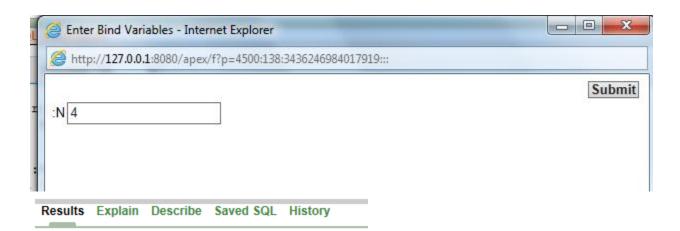
Q7) Write and Implement PL/SQL code to find factorial of the number.

```
Declare

num number;
factorial number;
Begin

num:= :n;
factorial:= 1;
for i in 1 .. num
LOOP
factorial := factorial * i;
end loop;
dbms output.put line('Factorial of Number is : ==> '|| Factorial);
End;
```

OUTPUT:



Factorial of Number is : ==> 24
Statement processed.

0.00 seconds