DBMS LABORATORY

LAB RECORD 8

NAME   : ANIRBAN HAZRA

SECTION : CSE - 16

ROLL   : 2005643

DATE   : 22/04/2022

ASSIGNMENT ON PLSQL

QUESTIONS :

1. <mark>WAP to print your name and address details.</mark>

   PROGRAM CODE :

   ```
   begin
   dbms_output.put_line('Name    : Anirban Hazra');
   dbms_output.put_line('Address : GD , Saltlake , Kolkata , India');
   end;
   /
   ```

   OUTPUT :

   ```
   SQL> ed plsql81.txt

   SQL> @plsql81.txt
   Name     : Anirban Hazra
   Address : GD , Saltlake , Kolkata , India

   PL/SQL procedure successfully completed.
   ```

2. <mark>Check whether a number is even or odd.</mark>

   PROGRAM CODE :

   ```
   declare
   x int:=&x ;
   begin
   if mod(x,2) = 0
   then
   dbms_output.put_line('Number is EVEN');
   else
   dbms_output.put_line('Number is ODD');
   end if ;
   end;
   /
   ```

OUTPUT :

```
SQL> ed plsql82.txt

SQL> @plsql82.txt
Enter value for x: 5
old    2: x int:=&x ;
new    2: x int:=5 ;
Number is ODD

PL/SQL procedure successfully completed.
```

3. Find the greatest no. among three nos.

PROGRAM CODE :

```
Declare
   a int:=&a;
   b int:=&b;
   c int:=&c;
Begin
if (a>b) and (a>c)
   then
   dbms_output.put_line('A is GREATEST : '||A);
elsif (b>a) and (b>c)
   then
   dbms_output.put_line('B is GREATEST : '||B);
else
   dbms_output.put_line('C is GREATEST : '||C);
end if;
End;
/
```

OUTPUT :

```
SQL> ed plsql83.txt

SQL> @plsql83.txt
Enter value for a: 3
old    2:      a int:=&a;
new    2:      a int:=3;
Enter value for b: 5
old    3:      b int:=&b;
new    3:      b int:=5;
Enter value for c: 4
old    4:      c int:=&c;
new    4:      c int:=4;
B is GREATEST : 5

PL/SQL procedure successfully completed.
```

4. Find the sum of a digits of a 4 digit no.

PROGRAM CODE :

```
declare
n int:=&n ;
temp int;
r int;
begin
temp:=0;

r := MOD(n, 10);
temp := temp + r;
n := Trunc(n / 10);

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r := MOD(n, 10);
temp := temp + r;
n := Trunc(n / 10);

dbms_output.put_line('Sum of digits is '|| temp) ;
end;
/
```

OUTPUT :

```
SQL> ed plsql84.txt

SQL> @plsql84.txt
Enter value for n: 1234
old    2: n int:=&n ;
new    2: n int:=1234 ;
Sum of digits is 10

PL/SQL procedure successfully completed.
```

5. Check whether a no. is prime or not using Basic Loop.

PROGRAM CODE :

```
declare
n int:= &n;
i int:= 2;
c int:= 1;

begin
loop
if mod(n,i) = 0
then
c:=0 ;
exit;
end if;
i:=i+1;
exit when i>floor(n/2);
end loop;
if (c = 1) then
dbms_output.put_line(n||' is a prime number');
else
dbms_output.put_line(n||' is a composite number');
end if;
end;
/
```

OUTPUT :

```
SQL> ed plsql85.txt

SQL> set serveroutput on;
SQL> @plsql85.txt
Enter value for n: 7
old    2: n int:= &n;
new    2: n int:= 7;
7 is a prime number

PL/SQL procedure successfully completed.
```

6. Find out factorial of a no. using While Loop.

PROGRAM CODE :

```
DECLARE
n  NUMBER := &n;
f NUMBER := 1;
temp NUMBER;
BEGIN
temp := n;
WHILE n > 0
LOOP
f := f * n;
n   := n - 1;
END LOOP;

DBMS_OUTPUT.PUT_LINE('factorial of ' || temp ||' is ' || f);

END;
/
```

OUTPUT :

```
SQL> ed plsql86.txt

SQL> @plsql86.txt
Enter value for n: 5
old    2: n   NUMBER := &n;
new    2: n   NUMBER := 5;
factorial of 5 is 120

PL/SQL procedure successfully completed.
```

THANK

YOU