|  |  |  |
| --- | --- | --- |
| **EX.NO:** | **6** | **Pl/SQL Statements** |
| **DATE :** |  |

**Area of the circle:**

DECLARE

2 area NUMBER(6, 2) ;

3 radius NUMBER(1) := &radius;

4 BEGIN

5 area := 3.14\* radius \* radius;

6 dbms\_output.Put\_line('Area = ' || area);

7 END;

8 /

**Output:**

Enter value for radius: 4

old 3: radius NUMBER(1) := &radius;

new 3: radius NUMBER(1) := 4;

Area = 50.24

PL/SQL procedure successfully completed.

**Odd or even:**

DECLARE

2 a NUMBER(3) := &a;

3 BEGIN

4 if a mod 2 = 0 then

5 dbms\_output.Put\_line('IT IS EVEN NUMBER' || A);

6 ELSE

7 dbms\_output.Put\_line('IT IS ODD NUMBER' || A);

8 END IF;

9 END;

10 /

**Output:**

Enter value for a: 4

old 2: a NUMBER(3) := &a;

new 2: a NUMBER(3) := 4;

IT IS EVEN NUMBER4

PL/SQL procedure successfully completed.

**Greatest of three numbers:**

DECLARE

2 a NUMBER := &a;

3 b NUMBER := &b;

4 c NUMBER := &c;

5 BEGIN

6 IF a > b AND a > c THEN

7 dbms\_output.Put\_line('Greatest number is '||a);

8 ELSIF b > a AND b > c THEN

9 dbms\_output.Put\_line('Greatest number is '||b);

10 ELSE

11 dbms\_output.Put\_line('Greatest number is '||c);

12 END IF;

13 END;

14 /

**OUTPUT:**

Enter value for a: 1

old 2: a NUMBER := &a;

new 2: a NUMBER := 1;

Enter value for b: 2

old 3: b NUMBER := &b;

new 3: b NUMBER := 2;

Enter value for c: 3

old 4: c NUMBER := &c;

new 4: c NUMBER := 3;

Greatest number is 3

PL/SQL procedure successfully completed.

**FACTORIAL NUMBER:**

DECLARE

2 a NUMBER := &a;

3 i number :=1;

4 mul number:=1;

5 BEGIN

6 WHILE i<=a loop

7 mul:=mul\*i;

8 i:=i+1;

9 end loop;

10 dbms\_output.Put\_line('the factorial of the number is '||mul);

11 END;

12 /

**Output:**

Enter value for a: 5

old 2: a NUMBER := &a;

new 2: a NUMBER := 5;

the factorial of the number is 120

PL/SQL procedure successfully completed.

**Prime number generation :**

DECLARE

a NUMBER := 1;

i number :=&i;

BEGIN

WHILE a<=i loop

dbms\_output.Put\_line (a);

if a=2 or a=3 or a=5 or a=7 or a mod 2 <> 0 and a mod 3 <> 0 and a mod 5 <> 0 and a mod 7 <> 0 then

dbms\_output.Put\_line ('the prime number is ' ||a);

a:=a+1;

end if;

end loop;

END;

**OUTPUT:**

Enter value for i: 2

old 3: i number :=&i;

new 3: i number :=2;

1

the prime number is 1

2

the prime number is 2

PL/SQL procedure successfully completed.

**FIBANOCI SERIES:**

declare

First number := 0;

second number := 1;

temp number;

n number := &NUMBER;

i number;

begin

dbms\_output.put\_line('Series:');

dbms\_output.put\_line(first);

dbms\_output.put\_line(second);

for i in 2..n

loop

temp:=first+second;

first := second;

second := temp;

dbms\_output.put\_line(temp);

end loop;

end;

**OUTPUT:**

Enter value for number: 10

old 7: n number := &NUMBER;

new 7: n number := 10;

Series:

0

1

1

2

3

5

8

13

21

34

55

PL/SQL procedure successfully completed.

**Palindrome number:**

s DECLARE

2 ST Varchar(10) :='&ST';

3 len number(10);

4 ST1 varchar(10);

5 BEGIN

6 len:=length(st);

7

8 for i in reverse 1..len

9 loop

10 st1:=st1 || substr(st,i,1);

11 end loop;

12 IF ST = ST1 THEN

13 dbms\_output.Put\_line('IT IS PADALINROME '|| st);

14 else

15 dbms\_output.Put\_line('IT IS not PADALINROME '|| st);

16 end if;

17 end;

18 /

**Output:**

enter value for st: dfg

old 2: ST Varchar(10) :='&ST';

new 2: ST Varchar(10) :='dfg';

IT IS not PADALINROME dfg

PL/SQL procedure successfully completed.