DBMS 2 TASK

Dharmit Shah SYIT 330

1. Area of Circle

```
DECLARE
    radius float;
    area float;
BEGIN
    radius:=:radius;
    area:=3.14*radius*radius;
    dbms_output.put_line(' The Area Of Circle is: '||area);
END;
/
```

Results Explain Describe Saved SQL History

```
The Area Of Circle is: 50.24

Statement processed.

0.04 seconds
```

2. Perimeter of Circle

```
DECLARE
    area NUMBER(6,2);
    perimeter NUMBER(6,2);
    radius NUMBER(1) := 3;
    pi CONSTANT NUMBER(3,2):= 3.14;
BEGIN
    area := pi * radius * radius;
    perimeter := 2 * pi * radius;
    dbms_output.put_line('Area = '|| area);
    dbms_output.put_line('Perimeter = '|| perimeter);
END;
/
```

Results Explain Describe Saved SQL History

```
Area = 28.26
Perimeter = 18.84

Statement processed.

0.03 seconds
```

3. Area of Rectangle

```
DECLARE

  l NUMBER(4, 2) := 3;

  b NUMBER(4, 2) := 7;

  a NUMBER(4, 2);

  p NUMBER(4, 2);
BEGIN

  a := l * b;
  p := 2 * (l + b);

  dbms_output.Put_line('Area of the rectangle is   '
  || a);
  dbms_output.Put_line('Perimeter of the rectangle is '
  || p);
END;
/
```

Results Explain Describe Saved SQL History

```
Area of the rectangle is   21
Perimeter of the rectangle is 20

Statement processed.

0.06 seconds
```

4. Swap of Two Numbers

```
declare
    a number;
    b number;
    temp number;

begin
    a:=5;
    b:=10;

    dbms_output.put_line('before swapping:');
    dbms_output.put_line('a='||a||' b='||b);

    temp:=a;
    a:=b;
    b:=temp;

    dbms_output.put_line('after swapping:');
    dbms_output.put_line('a='||a||' b='||b);

end;
/
```

```
before swapping:
a=5 b=10
after swapping:
a=10 b=5
```

Statement processed.

0.10 seconds

5. Read Temperature in Celsius and convert into Fahrenheit and vice versa

```
DECLARE
    celcius NUMBER;
    fahrenheit NUMBER;
BEGIN
    celcius := :input_celcius;
    fahrenheit := 9/5 * celcius + 32;
    dbms_output.put_line(celcius ||' celcius = '||fahrenheit|| ' fahrenheit');
END;
/
```

```
10 celcius = 50 fahrenheit
```

Statement processed.

0.09 seconds