WORKSHEET3.2

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Branch: CSE   **Section/Group: 709A**
Semester: 3rd   **Date of Performance: 08/11/2021**
Subject Name:DBMS Lab   **Subject Code: 20CSP-215**

Q1.

Question 1   5 Points

Create a package circle having the following functions:
    1. **Area of rectangle**
    2. **Perimeter of rectangle**

1) Aim/Overview of the practical:

To create a package having the following functions:

1. **Area of rectangle**
2. **Perimeter of rectangle.**

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2**) Software required:**

Oracle Live SQL

3**) Source Code (screenshot of the query executed):**

```
1   create or replace package circle AS
2
3   function area(r IN number, ar OUT number) return number;
4
5   procedure circum(r IN number, cir OUT number);
6
7   end;
8
```

```
Package created.
```

SQL Worksheet

```
1    create or replace package body circle AS
2
3    function area(r in number, ar out number) return number AS
4
5    begin
6
7      ar:=3.14*r*r;
8
9      return (ar);
10
11   end area;
12
13
14
15   procedure circum(r in number, cir out number) AS
16
17   begin
18
19     cir:=2*3.14*r;
20
21   end circum;
22
23   end;
24
```

```
Package Body created.
```

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SQL Worksheet

```
 1  declare
 2
 3    r number:=10;
 4
 5    a number;
 6
 7    c number;
 8
 9  begin
10
11    a:=circle.area(r,a);
12
13    circle.circum(r,c);
14
15    dbms_output.put_line('Area is ' || a);
16
17    dbms_output.put_line('Circumference is '|| c);
18
19  end;
20
```

4. Final Result/Output (after removing the errors): (Screenshot of output without any error)

```
Statement processed.
Area is 314
Circumference is 62.8
```

Learning outcomes (What I have learnt):

    1.

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Q2.

Question 2   (5 Points)

Create a package which includes a function to return a square of a number if it is positive else return an error message to the user.

1) Aim/Overview of the practical:

To create a package which includes a function to return a square of a number if it is positive else return an error message to the user.

2) Software required:

Oracle Live SQL

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3) Source Code (screenshot of the query executed):

```
SQL Worksheet

1  create or replace package Square as
2
3  function cal(n in number) return number;
4
5  end;
6  |
```

```
Package created.
```

SQL Worksheet

```
1   create or replace package body Square AS
2
3   function cal(n in number) return number IS
4
5   c number;
6
7   begin
8
9   if n>0 then
10
11  c:=n*n;
12
13  return (c);
14
15  else
16
17  RAISE_APPLICATION_ERROR(-20500,'No is not greater than 0');
18
19  end if;
20
21  end cal;
22
23  end Square;
24  |
```

```
Package Body created.
```

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```
 1   declare
 2
 3   i number;
 4
 5   begin
 6
 7   i:=Square.cal(9);
 8
 9   dbms_output.put_line('Square of given number is '||i);
10
11   end;
12
```

```
Statement processed.
```

4. Final Result/Output (after removing the errors): (Screenshot of output without any error)

```
Statement processed.
Square of given number is 81
```

Learning outcomes (What I have learnt):

1.

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Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			