Assignment 7

Name: Sayantani Karmakar

Roll No: 20CS8024

1. Write a PL/SQL block of code for inverting a number 9635 to 5369.

Solution

Code:

```
CREATE PROCEDURE `Assignment_7`.`Ques_1`()
BEGIN

DECLARE

num, rev INT;

SET num:= 9635;

SET rev:=0;

select num;

WHILE num>0 D0

SET rev:=(rev*10) + mod(num, 10);

SET num:=floor(num/10);

END WHILE;

SELECT rev;

END
```

Output:

2. Write a PL/SQL block of code to generate fibonacci series.

Solution

Code:

```
CREATE PROCEDURE `Assignment_7`.`Ques_2`(IN n INT(5))
BEGIN
    DECLARE num1, num2, temp INT;
    set num1:=0;
    set num2:=1;
    create table series(num int(5));
    insert into series values (num1), (num2);
    WHILE n>0 DO
        SET temp:=num1+num2;
        set num1:=num2;
        set num2:=temp;
        insert into series values (temp);
        set n := n-1;
    END WHILE;
    select * from series;
END
```

Output:

3. Write a PL/SQL block of code to calculate the area of a circle for a value of radius varying from 3 to 7. Store the radius and the corresponding values of calculated area in a table, Areas.

Solution

Code:

```
CREATE PROCEDURE `Assignment_7`.`Ques_3`()
BEGIN
```

```
declare r int;
declare a float;
set r:=3;
create table areas(radius int(5), area float(5));
while r<=7 do
    set a=3.14*r*r;
    insert into areas values (r, a);
    set r:=r+1;
end while;
select * from areas;</pre>
END
```

Output:

```
MariaDB [Assignment_7] > call Ques_3();
+-----+
| radius | area |
+-----+
| 3 | 28.26 |
| 4 | 50.24 |
| 5 | 78.5 |
| 6 | 113.04 |
| 7 | 153.86 |
+-----+
5 rows in set (0.018 sec)

Query OK, 5 rows affected (0.018 sec)
```