1. Write a stored procedure by the name of Comp\_intr to calculate the amount of interest on a bank account that compounds interest yearly. The formula is:- I = p (1+ r) y - p where:- I is the total interest earned. p is the principal. r is the rate of interest as a decimal less than 1, and y is the number of years the money is earning interest. Your stored procedure should accept the values of p, r and y as parameters and insert the Interest and Total amount into tempp table.

```
D2_92814_Krushna>DELIMITER //
D2_92814_Krushna>
D2_92814_Krushna>CREATE PROCEDURE Comp_intr(IN p DECIMAL(12,2), IN r DECIMAL(5,4), IN y INT)
     -> BEGIN
             DECLARE I DECIMAL(12,2);
DECLARE total DECIMAL(12,2);
     ->
             SET total = p * POW((1 + r), y);
     ->
             SET I = total - p;
     ->
             INSERT INTO tempp1(principal, rate, years, interest, total_amount)
             VALUES (p, r, y, I, total);
     ->
     -> END //
Query OK, 0 rows affected (0.07 sec)
D2_92814_Krushna>
D2_92814_Krushna>DELIMITER;
D2_92814_Krushna>CALL Comp_intr(10000, 0.05, 3);
Query OK, 1 row affected (0.01 sec)
D2_92814_Krushna>SELECT * FROM tempp1;
  principal | rate
                         | years |
                                     interest
                                                  total_amount
   10000.00 | 0.0500
                                3
                                      1576.25
                                                       11576.25
1 row in set (0.00 sec)
```

2. Create a stored function by the name of Age\_calc. Your stored function should accept the date of birth of a person as a parameter. The stored function should calculate the age of the person in years. The stored function should return the age in years.

```
D2_92814_Krushna>CREATE FUNCTION Age_calc(dob DATE)

-> RETURNS INT

-> DETERMINISTIC

-> BEGIN

-> DECLARE age INT;

-> SET age = YEAR(CURDATE()) - YEAR(dob);

->

-> -- Adjust if birthday hasn't occurred yet this year

-> IF DATE_FORMAT(CURDATE(), '%m%d') < DATE_FORMAT(dob, '%m%d') THEN

-> SET age = age - 1;

-> END IF;

->

-> RETURN age;

-> END //
Query OK, 0 rows affected (0.06 sec)
```