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 temp table.

```
mysql> Delimiter @@
mysql> CREATE PROCEDURE comp_int (IN p int,IN r int,IN y int,OUT i int)
   -> BEGIN
   -> select p*(1+r)*y into i;
   -> END @@
Query OK, 0 rows affected (0.07 sec)

mysql> Delimiter ;
mysql> call comp_int (1000,10,3,@c);
Query OK, 1 row affected (0.00 sec)

mysql> select @c;
+-------+
| @c    |
+-------+
| 33000 |
+-------+
1 row in set (0.00 sec)

mysql> create table int_table(principle int,rate int,year int,total int);
Query OK, 0 rows affected (0.12 sec)

mysql> insert into int_table values (1000,10,3,@c);
Query OK, 1 row affected (0.09 sec)

mysql> select * from int_table;
```

```
+-----------+------+------+-------+
| principle | rate | year | total |
+-----------+------+------+-------+
|      1000 |   10 |    3 | 33000 |
+-----------+------+------+-------+
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.

```
mysql> Delimiter @@
mysql> CREATE PROCEDURE getage (IN a date,OUT b int(10))
    -> BEGIN
    -> select DATEDIFF(curdate(),a)/365 into b ;
    -> END @@
Query OK, 0 rows affected, 1 warning (0.03 sec)

mysql> Delimiter ;
mysql> call getage('1996/11/09',@c);
Query OK, 1 row affected, 1 warning (0.00 sec)

mysql> select @c;
+------+
| @c   |
+------+
|   25 |
+------+
1 row in set (0.00 sec)

mysql> create table age(id int,name varchar(10),age int);
Query OK, 0 rows affected (0.16 sec)

mysql> insert into age(83,"Tushar",@c);
Query OK, 1 row affected (0.08 sec)

mysql> select * from age
    -> ;
+------+-------+------+
| id   | name  | age  |
+------+-------+------+
```

```
|   83| Tushar|   25 |
+------+-------+------+
1 row in set (0.00 sec)
```