1. Write a program that computes the perimeter and the area of a rectangle. Define your own values for the length and width. (Assuming that L and W are the length and width of the rectangle, Perimeter = 2\*(L+W) and Area = L\*W.

```
D2_92814_Krushna>create procedure perimeter(length float ,width float)

-> begin
-> declare perimeter float;
-> declare area float;
-> set perimeter = 2*(length+width);
-> set area = length * width;
-> insert into tempp values(area,'Area');
-> insert into tempp values(perimeter,'Perimeter');
-> end //
Query OK, 0 rows affected (0.05 sec)
```

2. Write a program that declares an integer variable called num, assigns a value to it, and computes and inserts into the tempp table the value of the variable itself, its square, and its cube.

```
D2_92814_Krushna>create procedure CalNum(num int)
    -> begin
    -> declare sq int ;
    -> declare cu int ;
    -> set sq = num * num ;
    -> set cu = num * num * num ;
    -> insert into tempp values(num, 'Original No');
    -> insert into tempp values(sq,'Square');
-> insert into tempp values(cu,'Cube');
    -> end //
Query OK, 0 rows affected (0.02 sec)
D2_92814_Krushna>delimiter;
D2_92814_Krushna>call CalNum(4);
Query OK, 1 row affected (0.01 sec)
D2_92814_Krushna>select * from tempp;
  fir
        sec
     4 |
         Original No
    16
         Square
    64
       l Cube
 rows in set (0.00 sec)
```

3. Convert a temperature in Fahrenheit (F) to its equivalent in Celsius (C) and vice versa. The required formulae are:- C = (F-32)\*5/9 F = 9/5\*C + 32

```
D2_92814_Krushna>create procedure tempConversion(t float)
    -> begin
    -> declare c float;
    -> declare f float;
    -> set c = (t-32) * 5/9;
    -> set f = 9/5 * c + 32 ;
    -> insert into tempp values(c,'celcius');
    -> insert into tempp values(f,'fer');
    -> end ; //
Query OK, 0 rows affected (0.04 sec)
D2_92814_Krushna>call tempConversion(34.5);
    -> //
Query OK, 1 row affected (0.01 sec)
D2_92814_Krushna>select * from tempp//
 fir
        sec
     1
        celcius
    34
        {\sf fer}
2 rows in set (0.00 sec)
```

4. Convert a number of inches into yards, feet, and inches. For example, 124 inches equals 3 yards, 1 foot, and 4 inches.

```
D2_92814_Krushna>create procedure converInches(inch int)
    -> begin
    -> declare yards int;
    -> declare feet int ;
    -> declare rem_inch int ;
    -> set yards = floor(inch/36);
    -> set rem_inch = inch%36;
    -> set feet = floor(inch / 12);
    -> set rem_inch = rem_inch % 12;
    -> select inch , yards , feet,rem_inch ;
    -> end //
Query OK, 0 rows affected (0.05 sec)
D2_92814_Krushna>call convertInches(40)//
ERROR 1305 (42000): PROCEDURE classwork.convertInches does not e
xist
D2_92814_Krushna>call converInches(40)//
 inch | yards | feet | rem_inch |
                               4 |
    40 l
             1 |
                    3 |
1 row in set (0.00 sec)
Query OK, 0 rows affected (0.01 sec)
```

5. Write a program that enables a user to input an integer. The program should then state whether the integer is evenly divisible by 5.

```
D2_92814_Krushna>DELIMITER //
D2_92814_Krushna>
D2_92814_Krushna>CREATE PROCEDURE CheckDivisibleBy5(IN num INT)
    -> BEGIN
           IF MOD(num, 5) = 0 THEN
               SELECT CONCAT(num, ' is divisible by 5') AS Result;
    ->
    ->
               SELECT CONCAT(num, ' is NOT divisible by 5') AS Result;
    ->
    ->
           END IF;
    -> END//
Query OK, 0 rows affected (0.05 sec)
D2_92814_Krushna>
D2_92814_Krushna>DELIMITER;
D2_92814_Krushna>CALL CheckDivisibleBy5(25);
Result
25 is divisible by 5
1 row in set (0.00 sec)
Query OK, 0 rows affected (0.00 sec)
D2_92814_Krushna>CALL CheckDivisibleBy5(14);
 Result
 14 is NOT divisible by 5 |
1 row in set (0.00 sec)
Query OK, 0 rows affected (0.00 sec)
```

6. Your block should read in two real numbers and tell whether the product of the two numbers is equal to or greater than 100.

```
D2_92814_Krushna>DELIMITER //
D2_92814_Krushna>
D2_92814_Krushna>CREATE PROCEDURE CheckProduct(IN num1 FLOAT, IN num2 FLOAT)
-> BEGIN
-> DECLARE prod FLOAT;
-> SET prod = num1 * num2;
->
-> IF prod >= 100 THEN
-> SELECT CONCAT('The product (', prod, ') is greater than or equal to 100') AS Result;
-> ELSE
-> SELECT CONCAT('The product (', prod, ') is less than 100') AS Result;
-> END IF;
-> END//
Query OK, 0 rows affected (0.05 sec)
```