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.**

```
M2_SAMARTHZADBUKE_87083>create table  rectangle (length int,width int,area int, perimeter int)//
Query OK, 0 rows affected (0.02 sec)

M2_SAMARTHZADBUKE_87083>create procedure Cal_Area_Peri(l int,w int) begin declare  peri int; declare area int; set peri=2*(l+w) ; set area=l*w; insert into  rectangle(length,width,perimeter,area) values(l,w,peri
,area) ; end;//
Query OK, 0 rows affected (0.01 sec)

M2_SAMARTHZADBUKE_87083>call Cal_Area_Peri(1,2)//
Query OK, 1 row affected (0.01 sec)

M2_SAMARTHZADBUKE_87083>selectr * from rectangle//
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'selectr * from rectangle' at line 1
M2_SAMARTHZADBUKE_87083>select * from rectangle//
+--------+-------+------+-----------+
| length | width | area | perimeter |
+--------+-------+------+-----------+
|      1 |     2 |    2 |         6 |
+--------+-------+------+-----------+
1 row in set (0.00 sec)

M2_SAMARTHZADBUKE_87083>
```

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

```
M2_SAMARTHZADBUKE_87083> create table temprature( celsius int , fahrenheit int, fahtocel int, celtofar int)//
Query OK, 0 rows affected (0.02 sec)

M2_SAMARTHZADBUKE_87083> create procedure TempratureConverter(c int,f int) begin declare Cel int; declare Far int; set Cel=(f-32)*5/9; set Fah=9/5*c+32; insert into temprature (celsius,fahrenheit,fahtocel,celtof
ar) values (c,f,Cel,Fah); end;////
ERROR 1193 (HY000): Unknown system variable 'Fah'
ERROR:
No query specified

M2_SAMARTHZADBUKE_87083> create procedure TempratureConverter(c int,f int) begin declare Cel int; declare Far int; set Cel=(f-32)*5/9; set Fah=9/5*c+32; insert into temprature (celsius,fahrenheit,fahtocel,celtof
ar) values (c,f,Cel,Fah); end;//
ERROR 1193 (HY000): Unknown system variable 'Fah'
M2_SAMARTHZADBUKE_87083> create procedure TempratureConverter(c int,f int) begin declare Cel int; declare Fah int; set Cel=(f-32)*5/9; set Fah=9/5*c+32; insert into temprature (celsius,fahrenheit,fahtocel,celtof
ar) values (c,f,Cel,Fah); end;//
Query OK, 0 rows affected (0.01 sec)

M2_SAMARTHZADBUKE_87083>call TempratureConverter(22,22)//
Query OK, 1 row affected (0.01 sec)

M2_SAMARTHZADBUKE_87083>select * from temprature//
+---------+------------+----------+----------+
| celsius | fahrenheit | fahtocel | celtofar |
+---------+------------+----------+----------+
|      22 |         22 |       -6 |       72 |
+---------+------------+----------+----------+
1 row in set (0.00 sec)
```

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

```
M2_SAMARTHZADBUKE_87083>CREATE TABLE CheckINT (     num INT,
    ->     DIVISIBAL_BY_FIVE CHAR(50),
    ->     NOT_DIVISIBAL_BY_FIVE CHAR(50)
    -> )//
Query OK, 0 rows affected (0.04 sec)

M2_SAMARTHZADBUKE_87083>create procedure CHECKINTEGER(num int) begin  if num%5=0 then select CONCAT(num,"IS DIVISIBLE BY 5"); else (num,"IS NOT DIVISIBLE BY 5") end if; end;//
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'num,"IS NOT DIVISIBLE BY 5") end if; end' at line 1
M2_SAMARTHZADBUKE_87083>create procedure CHECKINTEGER(num int) begin  if num%5=0 then select CONCAT(num,"IS DIVISIBLE BY 5"); else select CONCAT(num,"IS NOT DIVISIBLE BY 5") end if; end;//
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'if; end' at line 1
M2_SAMARTHZADBUKE_87083>create procedure CHECKINTEGER(num int) begin  if num % 5 = 0 THEN  select CONCAT(num,"IS DIVISIBLE BY 5"); else select CONCAT(num,"IS NOT DIVISIBLE BY 5") end if; end;//
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'if; end' at line 1
M2_SAMARTHZADBUKE_87083>create procedure CHECKINTEGER(num int) begin
    ->     if num % 5 = 0 THEN
    ->         select CONCAT(num,"IS DIVISIBLE BY 5");
    ->     else
    ->         select CONCAT(num,"IS NOT DIVISIBLE BY 5");
    ->     end if;
    -> end;//
Query OK, 0 rows affected (0.01 sec)

M2_SAMARTHZADBUKE_87083>call procedure(2)//
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'procedure(2)' at line 1
M2_SAMARTHZADBUKE_87083>call CHECKINTEGER(2)//
+-----------------------------------+
| CONCAT(num,"IS NOT DIVISIBLE BY 5") |
+-----------------------------------+
| 2IS NOT DIVISIBLE BY 5            |
+-----------------------------------+
1 row in set (0.00 sec)

Query OK, 0 rows affected (0.02 sec)

M2_SAMARTHZADBUKE_87083>
```