## 3 Exercises

- 1. Design a class named **CandyBar** to represent candybars. The class contains:
- three data member variables. The first member holds the brand name of a candy bar. The second member holds the weight (which may have a fractional part) of the candy bar, and the third member holds the number of calories (an integer value) in the candy bar.
- A method named setCandyBar() that should prompt the user to enter each of the items to set the corresponding member variables of the candybar.
- A method named showCandyBar() that display the information of candybar.

Write a test program that creates one CandyBar objects and display its information.

## A sample runs might look like this:

```
Enter brand name of a candy bar: Bulle Marphi
Enter weight of the candy bar: 4.5
Enter calories(an integer value) in the candy bar: 230
Brand: Bulle Marphi
Weight: 4.5
Calories: 230
```

- 2. Design a class named **Rectangle** to represent a rectangle. The class contains:
- Two double data fields named width and height that specify the width and height of the rectangle. The default values are I for both width and height.
- A no-arg constructor that creates a default rectangle.
- A constructor that creates a rectangle with the specified width and height.
- A method named getArea() that returns the area of this rectangle.
- A method named getPerimeter() that returns the perimeter.
- A method named display() that print out the information of rectangle.

Write a test program that creates two Rectangle objects, one with width 4 and height 40, and the other with width 3.5 and height 35.9. Display the width, height, area and perimeter of each rectangle in this order.

## A sample runs might look like this:

```
Rectangle 1
Width: 4
Height: 40
Area: 160
Perimeter: 88
Rectangle 2
Width: 3.5
Height: 35.9
Area: 125
```

Perimeter: 78