

3 Exercises

1. William Wingate runs a pizza-analysis service. For each pizza, needs to record the following information:

- ①The name of the pizza company, which can consist of more than one word
- ②The diameter of the pizza
- ③The weight of the pizza

Devise a structure that can hold this information and write a program that use ***new*** to allocate a structure instead of declaring a structure variable of that type. The program should ask the user to enter each of the preceding items of information, and then the program should display that information.

Sample output:

```
Enter the name of pizza company: Pizza Hot
Enter the diameter of pizza (inches): 10
Enter the weight of the pizza (g): 452.5
Displaying the information of the pizza
Company name: Pizza Hot
Pizza diameter: 10 inches
Pizza weight: 452.5 g
```

2. The **CandyBar** structure contains **three** members. The first member holds the brand **name** of 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.

Write a program that use **new** to allocate the array dynamically of three **CandyBar**. The program ask the user to enter each of the preceding items of information, and then the program should display that information.

Sample output:

```
Please input three CandyBar's information:
Enter the brand name of candy bar: Ferro Rocher
Enter the weight: 23.6
Enter the calories: 893
Enter the brand name of candy bar: Hershey's
Enter the weight: 13.2
Enter the calories: 658
Enter the brand name of candy bar: Mars Wrigley
Enter the weight: 3.2
Enter the calories: 327
```

Displaying the CandyBar array contents

```
Brand name: Ferro Rocher
Weight: 23.6
Calories: 893
Brand name: Hershey's
Weight: 13.2
Calories: 658
Brand name: Mars Wrigley
Weight: 3.2
Calories: 327
```

3. Write a C++ program to accept five integer values from keyboard:

- The five values will be stored in an array using a pointer.
- Print the elements of the array in reverse order using a pointer.

Sample output:

```
Enter 5 integers:
```

```
45 89 12 33 76
```

```
The elements of the array in reverse order are:
```

```
76 33 12 89 45
```