

Exercise 1.5 – Classes and Objects

1. Define a class called “volleyball”. Include the following instance fields in the class:
 - a. weight // in grams (start with the lowest listing)
 - b. circumference // in cm
 - c. panels // the number of panels on the outside of the ball
 - d. brand // string representing the name of the manufacturer
 - e. colour // dominant colour of ball
 - f. price // the retail cost of the ball

2. Create a program that will create an inventory system of four types of volleyballs for a volleyball team. Include the following balls:
 - a. <http://www.mikasasport.eu/mikasa-mva-200.htm>
 - b. <http://www.mikasasport.eu/mikasa-vls-300.htm>
 - c. <http://www.mikasasport.eu/mikasa-mvt-500.htm>
 - d. <http://www.mikasasport.eu/mikasa-skv5.htm>the weight and circumference are located on the links above. Research the remaining fields to find their values.

3. Write a program that will calculate the total price of your inventory.

```
public class Question1 {  
  
    public static void main(String[] args) {  
        // TODO Auto-generated method stub  
        volleyball MVA200 = new volleyball();  
        volleyball VLS300 = new volleyball();  
        volleyball MVT500 = new volleyball();  
        volleyball SKV5 = new volleyball();  
  
        //Inventory system of MVA200  
        MVA200.weight = 280;  
        MVA200.circumfrence = 67;  
        MVA200.brand = "Mikasa";  
        MVA200.colour = "yellow and blue";  
        MVA200.price = 249;  
  
        //Inventory system of VLS300  
        VLS300.weight = 280;  
        VLS300.circumfrence = 67;  
        VLS300.brand = "Mikasa";  
        VLS300.colour = "yellow and blue";  
        VLS300.price = 209;  
  
        //Inventory system of MVT500  
        MVT500.weight = 280;
```

```

MVT500.circumfrence = 67;
MVT500.brand = "Mikasa";
MVT500.colour = "yellow and blue";
MVT500.price = 209;

//Inventory system of SKV5
SKV5.weight = 180;
SKV5.circumfrence = 67;
SKV5.brand = "Mikasa";
SKV5.colour = "yellow and cyan";
SKV5.price = 79;

//Question3
double totalPrice = MVA200.price + VLS300.price + MVT500.price + SKV5.price;
System.out.println("The total price of the inventory is " + totalPrice + "zl");
    }
}

class volleyball {
    double weight;           // in grams (start with the lowest listing)
    double circumfrence;    // circumference // in cm
    double panels;          // the number of panels on the outside of the ball
    String brand;           // string representing the name of the manufacturer
    String colour;          // dominant color of ball
    double price;           // the retail cost of the ball
}

```