

Set of Boxes

Problem Statement:

Write a Program to insert the box details into the set.

Problem Constraints:

Create a Box Class and its attributes are length (Double), width (Double) and height (Double).
Get the Box details from the user and insert it to the Set.

We need to store the details of boxes with different volumes. When the volume of a new box is the same as the volumes of a previous box included in the Set, dont insert this box in the Set.

The Box is said to be same when their volumes are the equal.

Override the equals method to compare the box volumes.

Sample Input and Output :

Enter the number of Box

5

Enter the Box 1 details

Enter Length

2.1

Enter Width

1.2

Enter Height

2.1

Enter the Box 2 details

Enter Length

3.2

Enter Width

2.3

Enter Height

3.2

Enter the Box 3 details

Enter Length

1.2

Enter Width

2.1

Enter Height

1.2

Enter the Box 4 details

Enter Length

3.2

Enter Width

2.3

Enter Height

3.2

Enter the Box 5 details

Enter Length

3.3

Enter Width

2.2

Enter Height

1.1

Unique Boxes in the Set are

Length =1.2 Width =2.1 Height =1.2 Volume =3.02

Length =2.1 Width =1.2 Height =2.1 Volume =5.29

Length =3.3 Width =2.2 Height =1.1 Volume =7.99

Length =3.2 Width =2.3 Height =3.2 Volume =23.55