class Box {

double length;

double width;

double height;

// Default constructor

Box() {

length = -1;

width = -1;

height = -1;

}

// Parameterized constructor

Box(double len, double wid, double hgt) {

length = len;

width = wid;

height = hgt;

}

// Copy constructor

Box(Box ob) {

length = ob.length;

width = ob.width;

height = ob.height;

}

Box(double len)

{

width=height=length=len;

}

// Method to calculate volume

double volume() {

return length \* width \* height;

}

}

// Define the BoxWeight class that extends Box

class BoxWeight extends Box {

double weight;

// Default constructor

BoxWeight() {

super();

weight = -1;

}

// Parameterized constructor

BoxWeight(double len, double wid, double hgt, double wt) {

super(len, wid, hgt);

weight = wt;

}

// Copy constructor

BoxWeight(BoxWeight ob) {

super(ob);

weight = ob.weight;

}

BoxWeight(double len, double wt)

{

super(len);

weight=wt;

}

}

// Define the Shipment class that extends BoxWeight

class Shipment extends BoxWeight {

double cost;

// Default constructor

Shipment() {

super();

cost = -1;

}

// Parameterized constructor

Shipment(double len, double wid, double hgt, double wt, double c) {

super(len, wid, hgt, wt);

cost = c;

}

// Copy constructor

Shipment(Shipment ob) {

super(ob);

cost = ob.cost;

}

Shipment(double len, double wt, double c)

{

super(len,wt);

cost=c;

}

}

public class BoxClassApplication

{

public static void main(String[] args)

{

Shipment shipment1 =new Shipment(10, 20, 15, 10, 3.41);

Shipment shipment2 =new Shipment(2, 3, 4, 0.76, 1.28);

double vol;

vol = shipment1.volume();

System.out.println(&quot;Volume of shipment1 is &quot; + vol);

System.out.println(&quot;Weight of shipment1 is &quot;+ shipment1.weight);

System.out.println(&quot;Shipping cost: $&quot; + shipment1.cost);

System.out.println();

vol = shipment2.volume();

System.out.println(&quot;Volume of shipment2 is &quot; + vol);

System.out.println(&quot;Weight of shipment2 is &quot;+ shipment2.weight);

System.out.println(&quot;Shipping cost: $&quot; + shipment2.cost);

}

}