```
class Box {
     private double width;
     private double height;
     private double depth;
     // construct clone of an object
     Box(Box ob) { // pass object to constructor
           width = ob.width;
           height = ob.height;
           depth = ob.depth;
     // constructor used when all dimensions specified
     Box(double w, double h, double d) {
           width = w;
           height = h;
           depth = d;
     // constructor used when no dimensions specified
     Box() {
           width = -1; // use -1 to indicate
           height = -1; // an uninitialized
           depth = -1; // box
     // constructor used when cube is created
     Box(double len) {
```

```
width = height = depth = len;
     // compute and return volume
     double volume() {
           return width * height * depth;
// Add weight.
class BoxWeight extends Box {
     double weight; // weight of box
     // construct clone of an object
     BoxWeight(BoxWeight ob) { // pass object to constructor
           super(ob);
           weight = ob.weight;
     // constructor when all parameters are specified
     BoxWeight(double w, double h, double d, double m) {
           super(w, h, d); // call superclass constructor
           weight = m;
     // default constructor
     BoxWeight() {
           super();
```

```
weight = -1;
     // constructor used when cube is created
     BoxWeight(double len, double m) {
           super(len);
           weight = m;
// Add shipping costs.
class Shipment extends BoxWeight {
     double cost;
     // construct clone of an object
     Shipment(Shipment ob) { // pass object to constructor
           super(ob);
           cost = ob.cost;
     // constructor when all parameters are specified
     Shipment(double w, double h, double d,
           double m, double c) {
           super(w, h, d, m); // call superclass constructor
           cost = c;
```

```
// default constructor
     Shipment() {
           super();
           cost = -1;
     // constructor used when cube is created
     Shipment(double len, double m, double c) {
           super(len, m);
           cost = c;
class DemoShipment {
     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("Volume of shipment1 is " + vol);
           System.out.println("Weight of shipment1 is "
```

The output of this program is shown here: Volume of shipment1 is 3000.0 Weight of shipment1 is 10.0 Shipping cost: \$3.41 Volume of shipment2 is 24.0 Weight of shipment2 is 0.76 Shipping cost: \$1.28