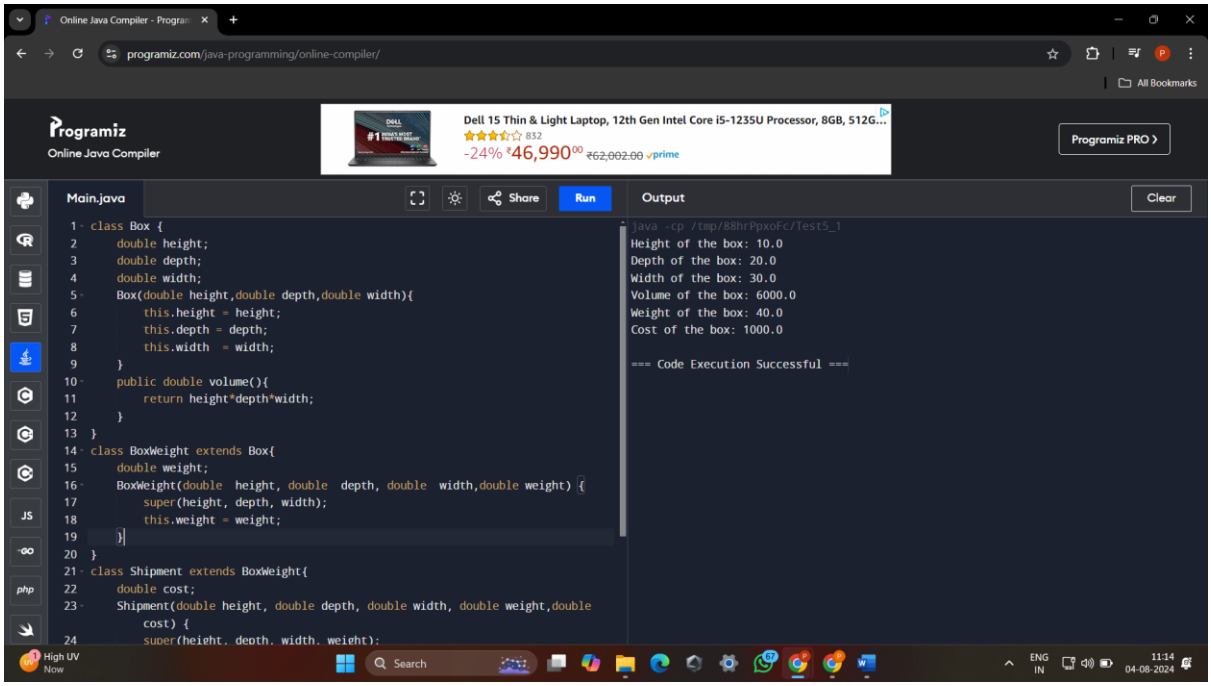
1.

Program code:

```
class Box {
   double height;
   double depth;
   double width;
   Box(double height,double depth,double width){
      this.height = height;
      this.depth = depth;
      this.width  = width;
   }
   public double volume(){
      return height*depth*width;
   }
}
class BoxWeight extends Box{
   double weight;
   BoxWeight(double  height, double  depth, double  width,double weight) {
      super(height, depth, width);
      this.weight = weight;
   }
}
class Shipment extends BoxWeight{
   double cost;
   Shipment(double height, double depth, double width, double weight,double cost) {
      super(height, depth, width, weight);
      this.cost = cost;
   }
}
public class Test5_1 {
   public static void main(String[] args) {
```

```
        Shipment obj = new Shipment(10,20,30,40,1000);
        System.out.println("Height of the box: "+obj.height);
        System.out.println("Depth of the box: "+obj.depth);
        System.out.println("Width of the box: "+obj.width);
        System.out.println("Volume of the box: "+obj.volume());
        System.out.println("Weight of the box: "+obj.weight);
        System.out.println("Cost of the box: "+obj.cost);
    }
}
```

OUTPUT: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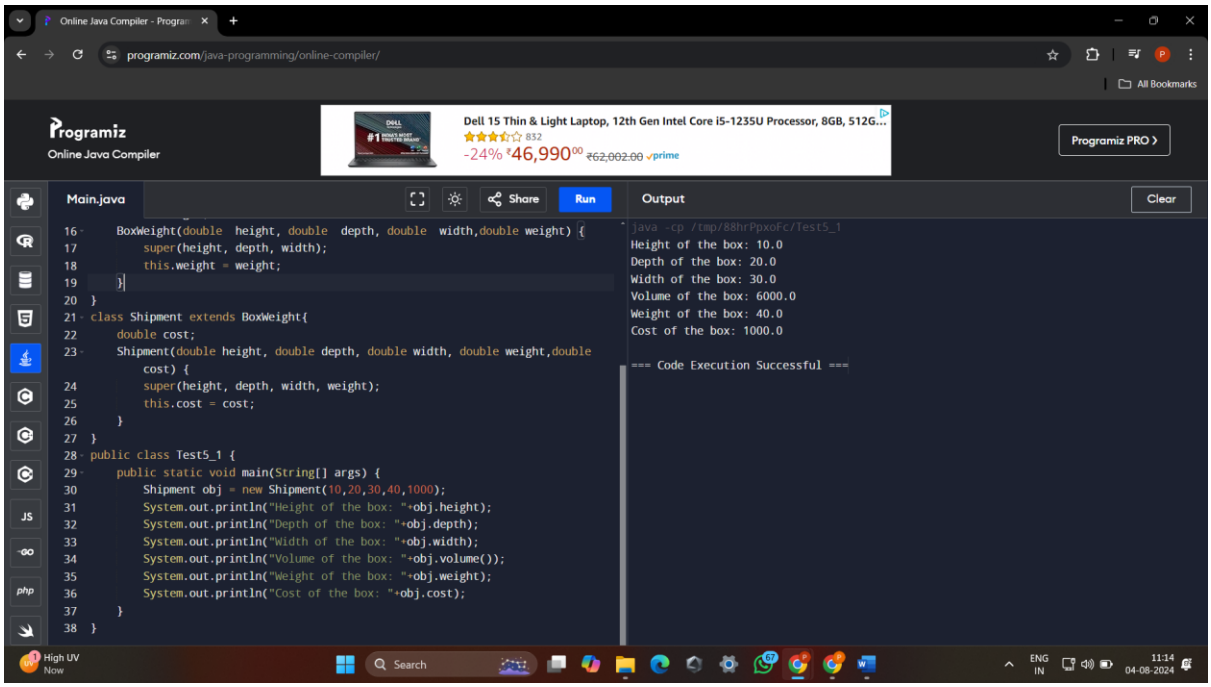
Programiz PRO
Main.java
Share
Run
Output
Clear
1 class Box {
2 double height;
3 double depth;
4 double width;
5 Box(double height,double depth,double width){
6 this.height = height;
7 this.depth = depth;
8 this.width = width;
9 }
10 public double volume(){
11 return height*depth*width;
12 }
13 }
14 class BoxWeight extends Box{
15 double weight;
16 BoxWeight(double height, double depth, double width,double weight) {
17 super(height, depth, width);
18 this.weight = weight;
19 }
20 }
21 class Shipment extends BoxWeight{
22 double cost;
23 Shipment(double height, double depth, double width, double weight,double
cost) {
24 super(height, depth, width, weight);
java -cp /tmp/88hrPpxoFc/Test5_1
Height of the box: 10.0
Depth of the box: 20.0
Width of the box: 30.0
Volume of the box: 6000.0
Weight of the box: 40.0
Cost of the box: 1000.0
=== Code Execution Successful ===
High UV
Now
Search
ENG
IN
11:14
04-08-2024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Programiz PRO
Main.java
Share
Run
Output
Clear
16 BoxWeight(double height, double depth, double width,double weight) {
17 super(height, depth, width);
18 this.weight = weight;
19 }
20 }
21 class Shipment extends BoxWeight{
22 double cost;
23 Shipment(double height, double depth, double width, double weight,double
cost) {
24 super(height, depth, width, weight);
25 this.cost = cost;
26 }
27 }
28 public class Test5_1 {
29 public static void main(String[] args) {
30 Shipment obj = new Shipment(10,20,30,40,1000);
31 System.out.println("Height of the box: "+obj.height);
32 System.out.println("Depth of the box: "+obj.depth);
33 System.out.println("Width of the box: "+obj.width);
34 System.out.println("Volume of the box: "+obj.volume());
35 System.out.println("Weight of the box: "+obj.weight);
36 System.out.println("Cost of the box: "+obj.cost);
37 }
38 }
java -cp /tmp/88hrPpxoFc/Test5_1
Height of the box: 10.0
Depth of the box: 20.0
Width of the box: 30.0
Volume of the box: 6000.0
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