

TEST (30-07-2024)

Write a program in java to Create simple box class with data members width height depth create two sub classes box weight and shipment class with cost data members display the volume of box and box weight and box.

CODE:

```
class Box {
    int width, height, depth;

    Box(int w, int h, int d) {
        width = w;
        height = h;
        depth = d;
    }

    int volume() {
        return width * height * depth;
    }
}

class BoxWeight extends Box {
    int weight;

    BoxWeight(int w, int h, int d, int wt) {
        super(w, h, d);
        weight = wt;
    }
}

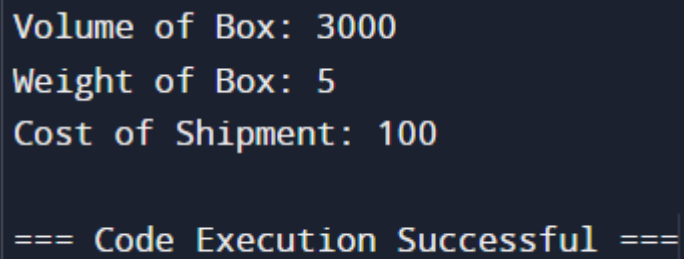
class Shipment extends BoxWeight {
    int cost;

    Shipment(int w, int h, int d, int wt, int c) {
        super(w, h, d, wt);
    }
}
```

```
        cost = c;
    }
}

public class Main {
    public static void main(String[] args) {
        Shipment s = new Shipment(10, 20, 15, 5, 100);
        System.out.println("Volume of Box: " + s.volume());
        System.out.println("Weight of Box: " + s.weight);
        System.out.println("Cost of Shipment: " + s.cost);
    }
}
```

Output:



```
Volume of Box: 3000
Weight of Box: 5
Cost of Shipment: 100

=== Code Execution Successful ===
```