**CLASS TEST –JAVA-30.7.2024**

**1)create box class with data members width,height,depth.create two subclasses boxweight with weight as data member and ship man with cost data members**

class Box {

protected double w;

protected double h;

protected double d;

public Box(double w, double h, double d) {

this.w = w;

this.h = h;

this.d = d;

}

public double volume() {

return w \* h \* d;

}

public String toString() {

return String.format("Box(w=%.2f, h=%.2f, d=%.2f)", w, h, d);

}

}

class BoxWeight extends Box {

private double w;

public BoxWeight(double w, double h, double d, double we) {

super(w, h, d);

this.w = w;

}

public double getWeight() {

return w;

}

public String toString() {

return String.format("%s, w=%.2f", super.toString(), w);

}

}

class ShipMan extends BoxWeight {

private double cost;

public ShipMan(double w, double h, double d, double we, double cost) {

super(w, h, d, w);

this.cost = cost;

}

public double getCost() {

return cost;

}

public String toString() {

return String.format("%s, cost=%.2f", super.toString(), cost);

}

}

public class Main {

public static void main(String[] args) {

Box box = new Box(10, 20, 15);

BoxWeight boxWeight = new BoxWeight(10, 20, 15, 5);

ShipMan shipMan = new ShipMan(10, 20, 15, 5, 50);

System.out.println("Volume of box: " + box.volume());

System.out.println("Weight of boxWeight: " + boxWeight.getWeight());

System.out.println("Cost of shipMan: " + shipMan.getCost());

}

}

