**Lab Exercise 1**

**AIM: Constructor Overloading**

class Box

{

double width, height, depth;

Box(double w, double h, double d)

{

width = w;

height = h;

depth = d;

}

Box()

{

width = height = depth = 0;

}

Box(double len)

{

width = height = depth = len;

}

double volume()

{

return width \* height \* depth;

}

}

public class Consover

{

public static void main(String args[])

{

Box mybox1 = new Box(10, 20, 15);

Box mybox2 = new Box();

Box mycube = new Box(7);

double vol;

vol = mybox1.volume();

System.out.println(" Volume of mybox1 is " + vol);

vol = mybox2.volume();

System.out.println(" Volume of mybox2 is " + vol);

vol = mycube.volume();

System.out.println(" Volume of mycube is " + vol);

}

}

**Algorithm:**

**1. Create a Class Box.**

**2. Inside that class give double height, width and depth**

**3. Set the height, width and depth equal to zero.**

**4. Find the volume by width\*height\*depth**

**5. Create another class Consover.**

**6. Inside it define a main function.**

**7. Call the function by creating new objects mybox1, mybox2 and mycube.**

