1.

abstract class container {

abstract double volume();

}

public class cylindricalcontainer extends container {

private double height,radius;

@Override

public double volume(){

double PI=3.14159;

return PI\*radius\*radius\*height;

}

cylindricalcontainer(double height,double radius){

this.height = height;

this.radius = radius;

}

}

public class App {

public static void main(String[] args) throws Exception {

cylindricalcontainer c = new cylindricalcontainer(14,7);

c.volume();

System.out.println("Volume is: "+c.volume());

}

}