# Question 01:

// Abstract class Container

abstract class Container {

public abstract double volume();

}

// Class CylindricalContainer

class CylindricalContainer extends Container {

private double height;

private double radius;

public CylindricalContainer(double R, double H) {

this.radius = R;

this.height = H;

}

public double volume() {

return Math.PI \* radius \* radius \* height;

}

}

// Object and Display

public class Main {

public static void main(String[] args) {

CylindricalContainer cylinder = new CylindricalContainer(5, 3);

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

}

}

// Output : Volume : 235.619