import java.util.Scanner;

class Circle {

    private *double* radius;

    protected String color;

    public Circle() {

    }

    public Circle(*double* radius, String color) {

*super*();

*this*.radius = radius;

*this*.color = color;

    }

    public *double* getRadius() {

        return radius;

    }

    public *void* setRadius(*double* radius) {

*this*.radius = radius;

    }

    public String getColor() {

        return color;

    }

    public *void* setColor(String color) {

*this*.color = color;

    }

    public *double* getArea() {

        return radius \* radius \* 3.14;

    }

    public String tooString() {

        return ("Radius:" + *this*.radius + "Color:" + *this*.color);

    }

}

class Cylinder extends Circle {

    private *double* height;

    public Cylinder() {

    }

    public Cylinder(*double* height, *double* radius, String color) {

*super*(radius, color);

*this*.height = height;

    }

    public *double* getHeight() {

        return height;

    }

    public *void* setHeight(*double* height) {

*this*.height = height;

    }

    public *double* getVolume() {

        return *super*.getArea() \* height;

    }

    public String toString() {

        return ("Volume:" + getVolume() + "Area" + *super*.getArea() + "Color:" + *this*.color);

    }

    public static *void* main(String[] args) {

        Scanner sc = **new** Scanner(System.in);

        Cylinder c = **new** Cylinder();

        System.out.println("Nhap ban kinh:");

        c.setRadius(sc.nextDouble());

        sc.nextLine();

        System.out.println("Nhap mau sac:");

        c.setColor(sc.nextLine());

        System.out.println("Nhap chieu cao:");

        c.setHeight(sc.nextDouble());

        System.out.println(c.toString());

        System.out.println("Dien tich:" + c.getArea());

        System.out.println("The tich:" + c.getVolume());

    }

}