

2/1/24

abstract class

LAB-4

import java.util.Scanner;
abstract class Shape {

 double a;

 double b;

 Shape (double d1, double d2) {

 this.a = d1;

 this.b = d2;

}

 abstract double area();

g

class Rectangle extends Shape {

 Rectangle (double d1, double d2) {

 super (d1, d2);

 }

 double area() {

 System.out.println("area of rectangle = ");

 return a * b;

 }

3

class Triangle extends Shape {

 Triangle (double d1, double d2) {

 super (d1, d2);

 }

 double area() {

 System.out.println("area of triangle = ");

 return (a * b) / 2;

3

3

class Circle extends Shape {
 Circle (double r) {
 super (r, 0);

3

double area() {

System.out.print ("Area of circle is ");
 return 3.14 * r * r;

3

class AbstractClass {

PSVM () {

Scanner in = new Scanner (System.in);

sout ("enter dim. of rectangle");

int l = in.nextInt();

int breadth = in.nextInt();

sout ("enter dim. for triangle");

int b = in.nextInt();

int h = in.nextInt();

sout ("enter dim. of circle");

int r = in.nextInt();

Rectangle r = new Rectangle (l, b);

Triangle t = new Triangle (b, h);

Circle c = new Circle (r);

sout (r.area());

sout (t.area());

sout (c.area());

3
3

Q/P

enter dim of rectangle
2 3

enter dim of triangle
2 4

enter the dim of circle

area of rectangle = 6.0

area of triangle = 4.0

area of circle = 28.259999999

Q/P

21/1/2024