Lab Programy

Develop a java program to create an abstract dass named shape that contains a integers and an empty method named print Area (). Provide 3 classes named Rectangle, Triangle and Circle such that each one of the classes extends the class shape. Each one of the classes contain only the method print treal) that points the area of the given shape.

Source Code import jara util b; abstract class Shape & int diming, dimin;

public Shape Cint dim, int dimz) g ? this dim = dim;

this dim = dim;

This dim = dim;

public abstract void printArea();

class Rectangle extends shape [public Rectangle Cint length, int breadth) { dime = lengthe;

dime = breadth;

public void printArea () { int area = dim 1 * dim 2;

System out println ("Area of rectangle: " + area);

class Triangle extends Shape & public Triangle (int base, height) & dim = base; dim = height; we really the things with the only the mother printheall that and the area of the after public void print Area () { double area = 0.5 \$ dim 1 \$ dim 2; shall some System out println ("Area of Trayle: "+ area); dan Circle extends Shapel public Circle (int-radicus) { dim: radius;

dim: 2=0; and to make the goods willing dim = radius; public void print Area () 2 double area = Math. PI & dimi * dimz. System out print In (" Area of Circle: " + area); public class Shapes \$ 2 public static void main (String [] args) { Scanner sc = new Scanner (System-in); System. out. println ("Enter length and breadth for Rectangle:"); int length = sc. next Int(); int breadth = sc. next-Ent(); Shape rectangle = new Rectangle (denth, breadth); rectayle. mint Area (); System-out. prittn ("Enter base and height for Triangle: "); int base = sc. nept Int();

int height = sc. next Int (); of very sun a good () Shape briangle = new Triangle (base, height); triangle print Areal) System out print ("Enter radicus for Circle: "); interadius = new sc. new Int(); Shape circle = new Circle (radius); eircle print Area(). which add and word during to make them more specific to their requirements anches necession on these to odier the fellowing. (3) Accept deposit from eachwar to applete balance autput (16) Bisplay balance (iii) Competer and deposit intercole Enter length and width for Rectangle. (4) check for minimum balance, Area of Rectangle: 200 Enter base and height for Triangle: import java uht. 4; Area of Triangle: 300.0 Enter readins for Circle: projected double believe: sublic tecount (fring authorie int Aceno double belon ot Area of Circle: 314.1592653589793 this balance + belance Jether void deport (double 1 amount) [if (amount 20) ? a belough amount?