

Develop a Java program to cocate an abstract class hamed Shape that contains two interess and an empty method named printfrea(), Provide three clayer named Rectangle, Triangle and circle such that each one of the clayer extend dax shape Each of the stape contain only the method printfract that prints the axea of the given shape

import java.vtil. *;

class Inputscanner &

Scanner sc', InputScanner ()

3 sc=new Scanner (system-in)

abstract class Shape extends InputScanner

double a;

double b;
abstract void get Input ();
abstract void displayArea ();

class Rechangle extends Shape

void get Input ()

System-out-println ("Enter the length and breadth:"); a = sc-nextDouble(1;

b=SC-nextDouble();

void display Area () System out printly ("Area of rectangle is: "Harti Triangle extends Shape days void get Input () Systemout.println("Enter length and height:");

a = sc next Double ();

b = sc. next Double (); void display Area () System.ovt. printh (" Aras of triumple is: "+(a+6+0.5) Circle extends Shape class void getInput () System out printh ("Entra the radius:");
a = sc. next Pouble(); vaid display Area () System at printin ("Area of circle: " + (a*a +3.14)! class ShapeMain & public static void main (String EJ args) Rectangle r= new Rectangle () Triangle t=new Triangle()'
Circle c= new (ircle(); r-get Input(); x- display (Freac); t-get Inputci; t-displayArea (); cigetInput(); C. display fra (); Output: Enter the length and breadth: Area of sectionale is: 50.0 Enter the length and height: Area of restords triangle is: 20.0 Enter the radius: Area of circle: 78.5 Shreyas Rao M TBM2265272

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